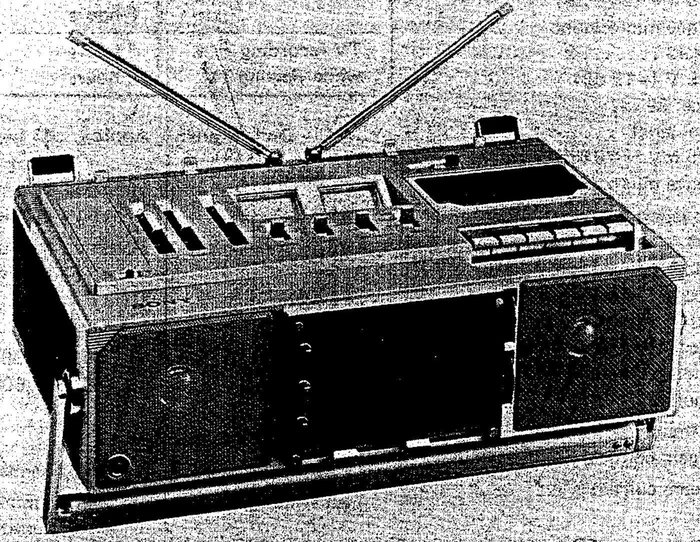
FX-414

510

US and Canadian Model



TV-FM/AM RECEIVER CASSETTE-CORDER

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

SPECIFICATIONS

Television System:	American and Canadian TV standards
Picture Tube:	9.4 cm, 4" (screen measured diagonally), 50° deflection
Semiconductors:	71 transistors, 4 ICs and 44 diodes
Antennas:	VHF/UHF/FM: Telescopic antennas 75 Ω external antenna terminal AM: Built-in ferrite-rod antenna
Channel Coverage:	VHF channels: 2 — 13 UHF channels: 14 — 83
Intermediate Frequency:	Picture i-f carrier: 45.75 MHz Sound i-f carrier: 41.25 MHz
Sound System:	4.5 MHz intercarrier Output power: 2.5 W x 2 (max.) at ac operation 2.2 W x 2 (at 10 % harmonic distortion) at dc operation

— Continued on page 2 —

SONY®

SERVICE MANUAL

5107

Speaker: Approx. 10 cm (4 inches) dia. x 2, 8 Ω

Input: MIC (minijack) 2
Sensitivity: 0.25 mV (–70 dB) for low impedance microphone
LINE IN (phono jack) 2
Sensitivity: 0.19 V (–12 dB)
Input impedance: 39 kΩ
MIXING MIC (mini jack) 1
Sensitivity: 0.25 mV (–70 dB) for low impedance microphone

Output: LINE OUT (phono jack) 2
Rated output: 0.44 V (–5 dB) at loard impedance 47 kΩ
Load impedance: 10 kΩ or higher
EXT SP (mini jack) 2
for 4 to 8 Ω speaker
HEADPHONES (stereo binaural jack) . . . 1
for 8 Ω headphones

Automatic Controls: AFC (automatic frequency control)
AGC (automatic gain control)

Anode Voltage: 6.7 kV at 20 μA beam current

Power Requirements: 120 V ac, 60 Hz
10.5 V dc, seven batteries size D (IEC designation R20)
12 V car battery with optional Sony car battery cord DCC-16AW

Power Consumption: 25 W ac
18 W dc (in 12 V operation)

Battery Life: Battery life is dependent on operating conditions and the type of batteries used. The following table shows some examples; the upper row shows the battery life with an intermittent use of two-hours on and two-hours off, and the lower shows that with continuous use.

	Sony Super Battery SUM-1S	Sony Ultra Super SUM-1U
TV viewing	11 hours 8 hours	16 hours 15 hours
TV recording while viewing TV	7 hours 5 hours	10 hours 9 hours

Dimensions: Approx. 43 (w) x 14 (h) x 29 (d) cm
16⅞ (w) x 5½(h) x 11⅜ (d) inches
including projecting parts and controls, excluding handle

Net Weight: Approx. 6.4 kg (14 lb 2 oz)
excluding batteries and accessories

RADIO SECTION

Frequency Range: FM 87.5 – 108 MHz
AM 530 – 1,605 kHz (566 – 187 m)

TAPE RECORDER SECTION

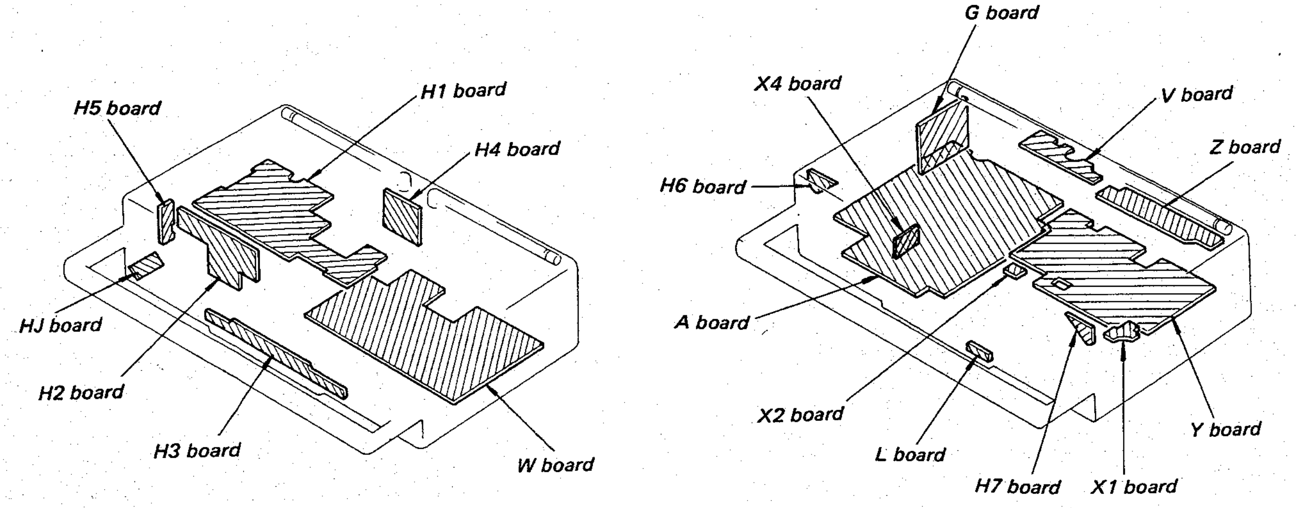
Recording System: 4-track 2-channel stereo or monaural

Fast Winding Time: Approx. 1 min. 50 sec. with Sony Cassette C-60

Frequency Response: 60 – 10,000 Hz
(with standard cassette, with the TAPE SELECT switch set to TYPE I/NORMAL)
60 – 12,000 Hz
(with chromium dioxide cassette, with the TAPE SELECT switch set to TYPE II/CrO_2)

Accessories Supplied: Cassette tape 1
AC power cord 1
Shorting plug (SP-100) 1
Head cleaning tips . . . . 1 set
Instruction manual 1

CIRCUIT BOARDS LOCATION



SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
   Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

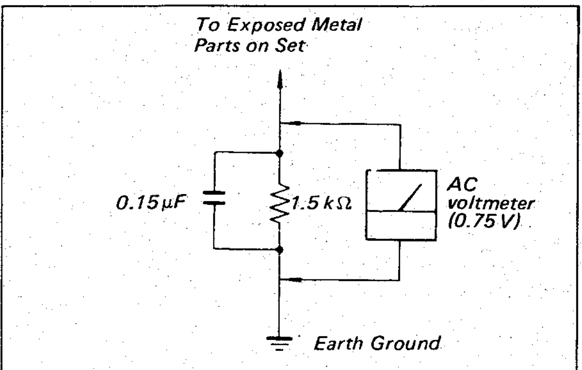


Fig. A. Using an AC voltmeter to check AC leakage.

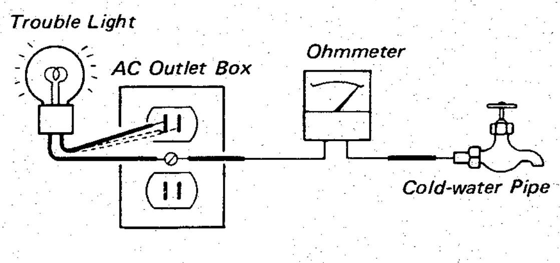
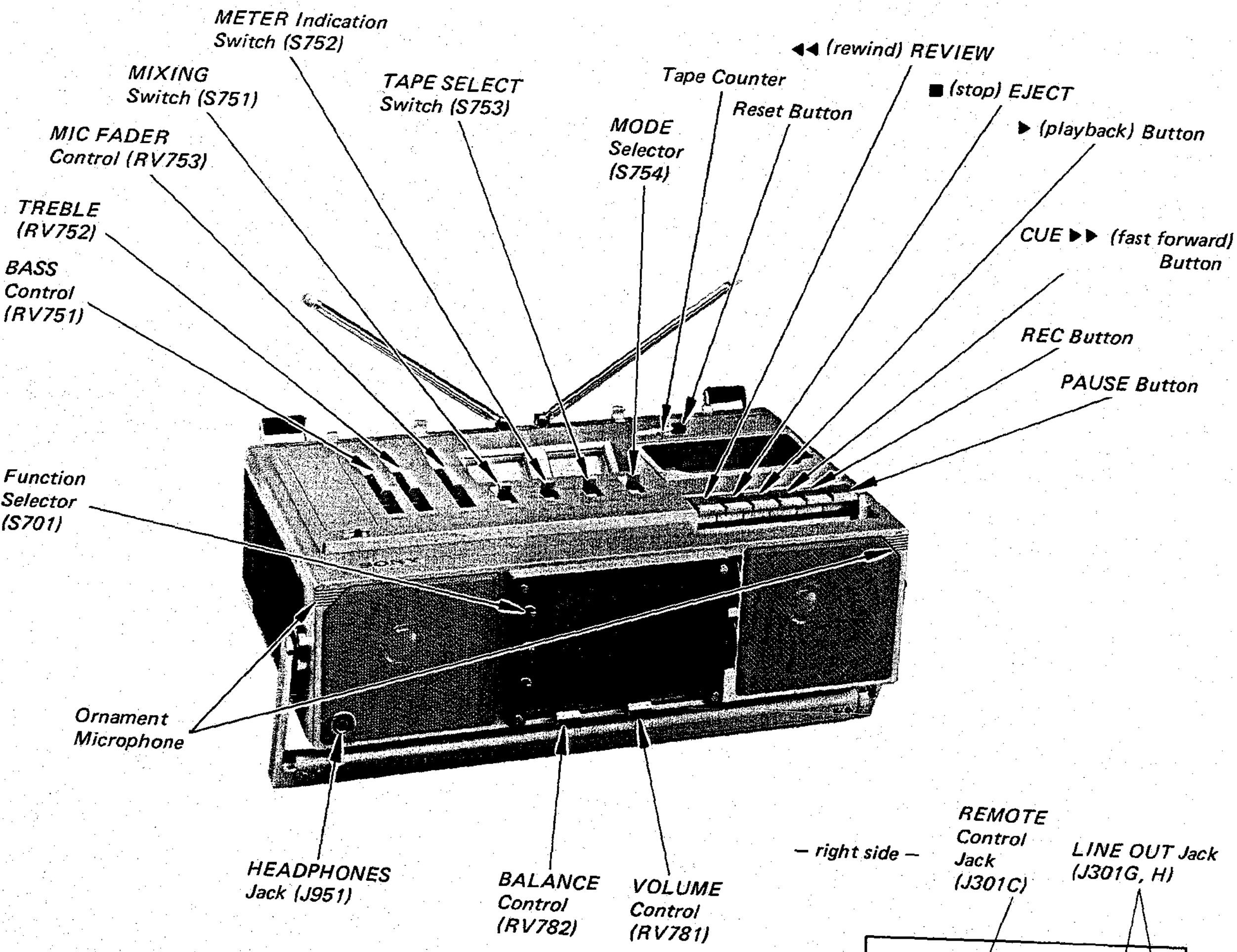


Fig. B. Checking for earth ground.

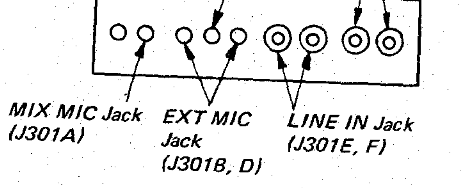
SECTION 1
OUTLINE

1-1. PARTS LOCATION

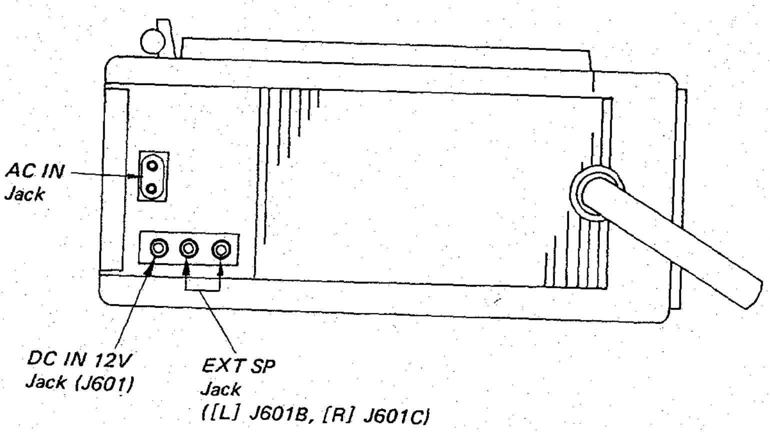
(1) Tape Recorder Section


METER Indication Switch (S752)
MIXING Switch (S751)
TAPE SELECT Switch (S753)
MIC FADER Control (RV753)
TREBLE (RV752)
BASS Control (RV751)
MODE Selector (S754)
Tape Counter
Reset Button
◀◀ (rewind) REVIEW
■ (stop) EJECT
▶ (playback) Button
CUE ▶▶ (fast forward) Button
REC Button
PAUSE Button
Function Selector (S701)
Ornament Microphone
HEADPHONES Jack (J951)
BALANCE Control (RV782)
VOLUME Control (RV781)

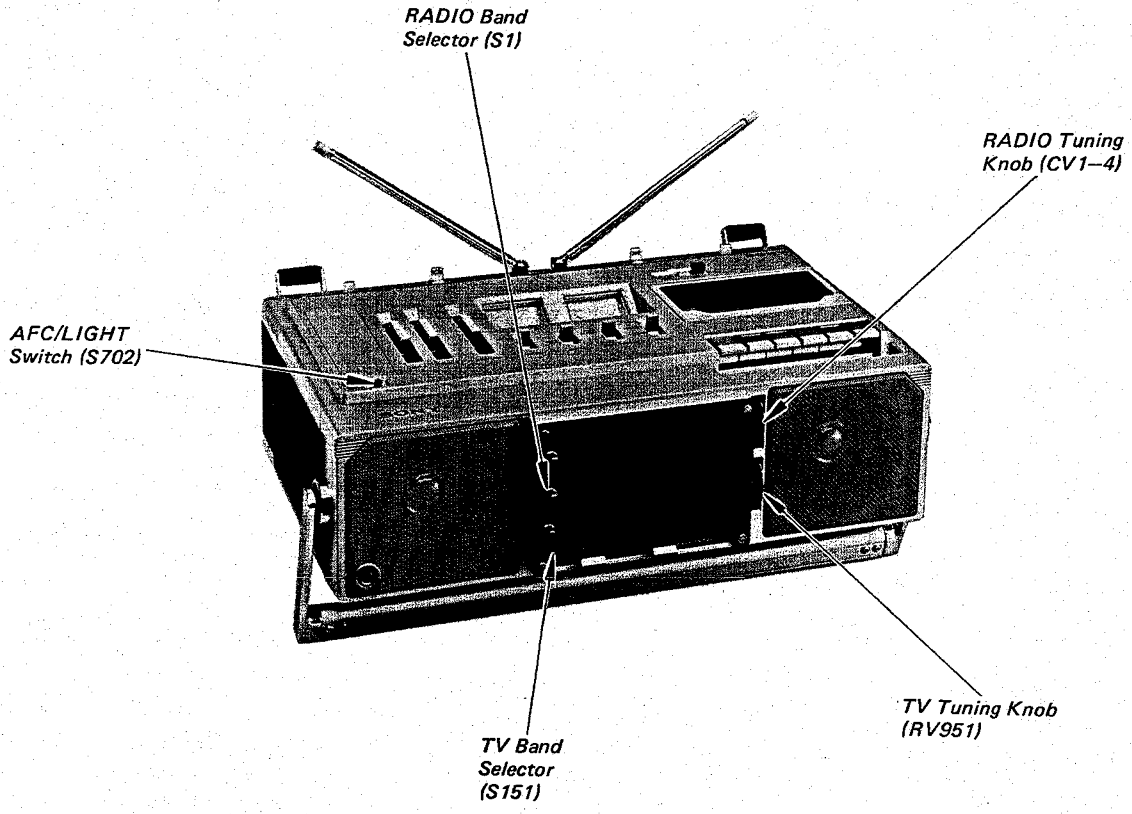
— right side —


REMOTE Control Jack (J301C)
LINE OUT Jack (J301G, H)
MIX MIC Jack (J301A)
EXT MIC Jack (J301B, D)
LINE IN Jack (J301E, F)

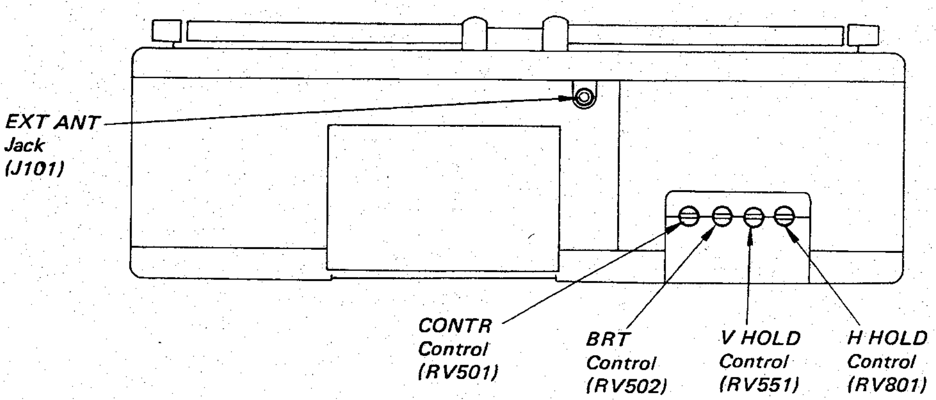
— left side —


AC IN Jack
DC IN 12V Jack (J601)
EXT SP Jack ([L] J601B, [R] J601C)

(2) TV Section and Radio Section

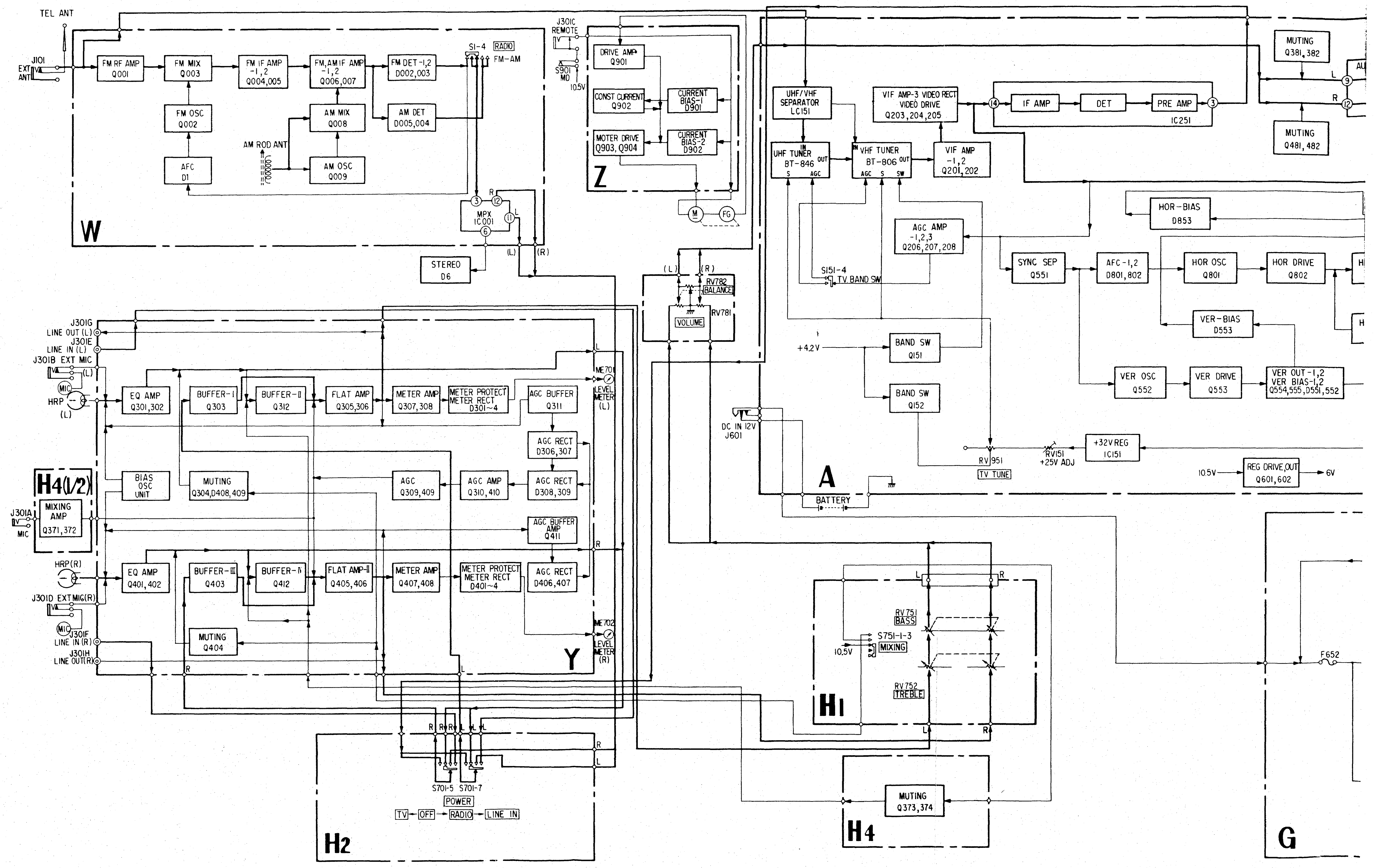

RADIO Band Selector (S1)
RADIO Tuning Knob (CV1–4)
AFC/LIGHT Switch (S702)
TV Tuning Knob (RV951)
TV Band Selector (S151)

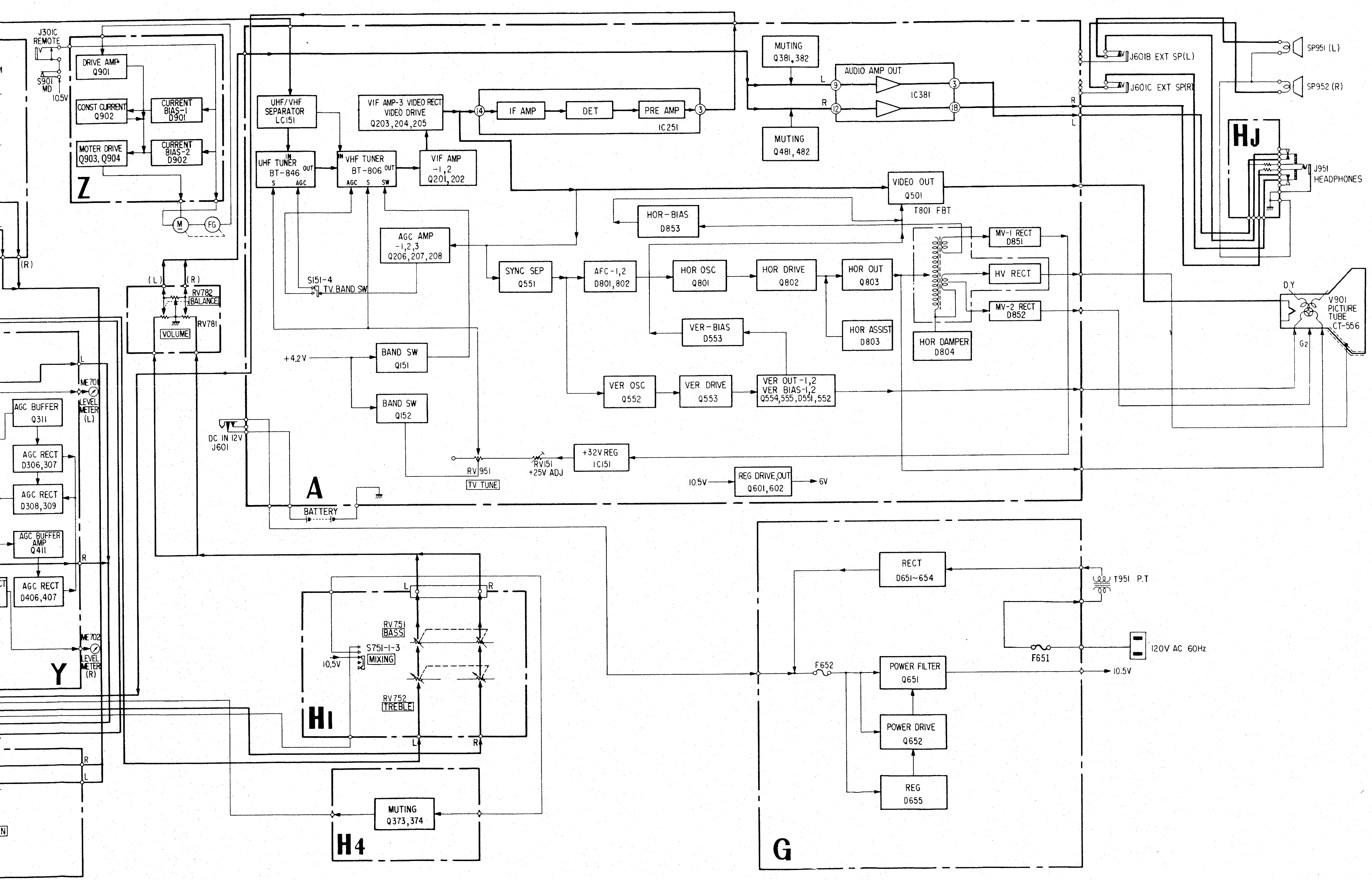
— rear —


EXT ANT Jack (J101)
CONTR Control (RV501)
BRT Control (RV502)
V HOLD Control (RV551)
H HOLD Control (RV801)

MEMO

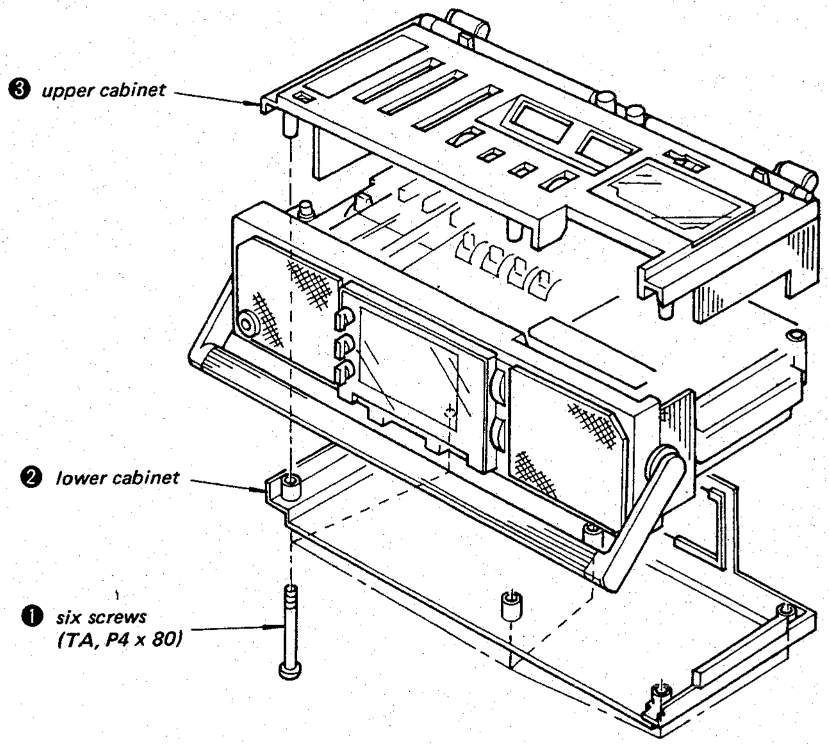
1-2. BLOCK DIAGRAM


TEL ANT
J101
EXT ANT
FM RF AMP Q001
FM MIX Q003
FM IF AMP -1,2 Q004,005
FM,AM IF AMP -1,2 Q006,007
FM DET-1,2 D002,003
S1-4 RADIO
FM-AM
FM OSC Q002
AM MIX Q008
AM DET D005,004
AM ROD ANT
AFC D1
AM OSC Q009
MPX IC001
STEREO D6
W
J301C REMOTE
S901 MD
10.5V
DRIVE AMP Q901
CONST CURRENT Q902
CURRENT BIAS-1 D901
MOTER DRIVE Q903, Q904
CURRENT BIAS-2 D902
Z
M
FG
RV782 BALANCE
VOLUME
RV781
(L)
(R)
UHF/VHF SEPARATOR LC151
VIF AMP-3 VIDEO RECT VIDEO DRIVE Q203,204,205
IF AMP
DET
PRE AMP
IC251
MUTING Q381,382
MUTING Q481,482
UHF TUNER BT-846
VHF TUNER BT-806
IN
OUT
S
AGC
SW
VIF AMP -1,2 Q201,202
AGC AMP -1,2,3 Q206,207,208
S151-4 TV BAND SW
HOR-BIAS D853
SYNC SEP Q551
AFC-1,2 D801,802
HOR OSC Q801
HOR DRIVE Q802
VER-BIAS D553
+4.2V
BAND SW Q151
BAND SW Q152
VER OSC Q552
VER DRIVE Q553
VER OUT-1,2 VER BIAS-1,2 Q554,555,D551,552
DC IN 12V J601
RV951 TV TUNE
RV151 +25V ADJ
+32V REG IC151
10.5V
REG DRIVE,OUT Q601,602
6V
A
BATTERY
J301G LINE OUT (L)
J301E LINE IN (L)
J301B EXT MIC
MIC
HRP
(L)
EQ AMP Q301,302
BUFFER-I Q303
BUFFER-II Q312
FLAT AMP Q305,306
METER AMP Q307,308
METER PROTECT METER RECT D301~4
AGC BUFFER Q311
ME701 LEVEL METER (L)
AGC RECT D306,307
BIAS OSC UNIT
MUTING Q304,D408,409
AGC Q309,409
AGC AMP Q310,410
AGC RECT D308,309
H4(1/2)
MIXING AMP Q371,372
J301A MIC
AGC BUFFER AMP Q411
HRP(R)
EQ AMP Q401,402
BUFFER-III Q403
BUFFER-IV Q412
FLAT AMP-II Q405,406
METER AMP Q407,408
METER PROTECT METER RECT D401~4
AGC RECT D406,407
J301D EXT MIC(R)
MUTING Q404
J301F LINE IN (R)
J301H LINE OUT(R)
ME702 LEVEL METER (R)
Y
RV751 BASS
S751-1-3 MIXING
10.5V
RV752 TREBLE
H1
S701-5 S701-7
POWER
TV OFF RADIO LINE IN
H2
MUTING Q373,374
H4
F652
G

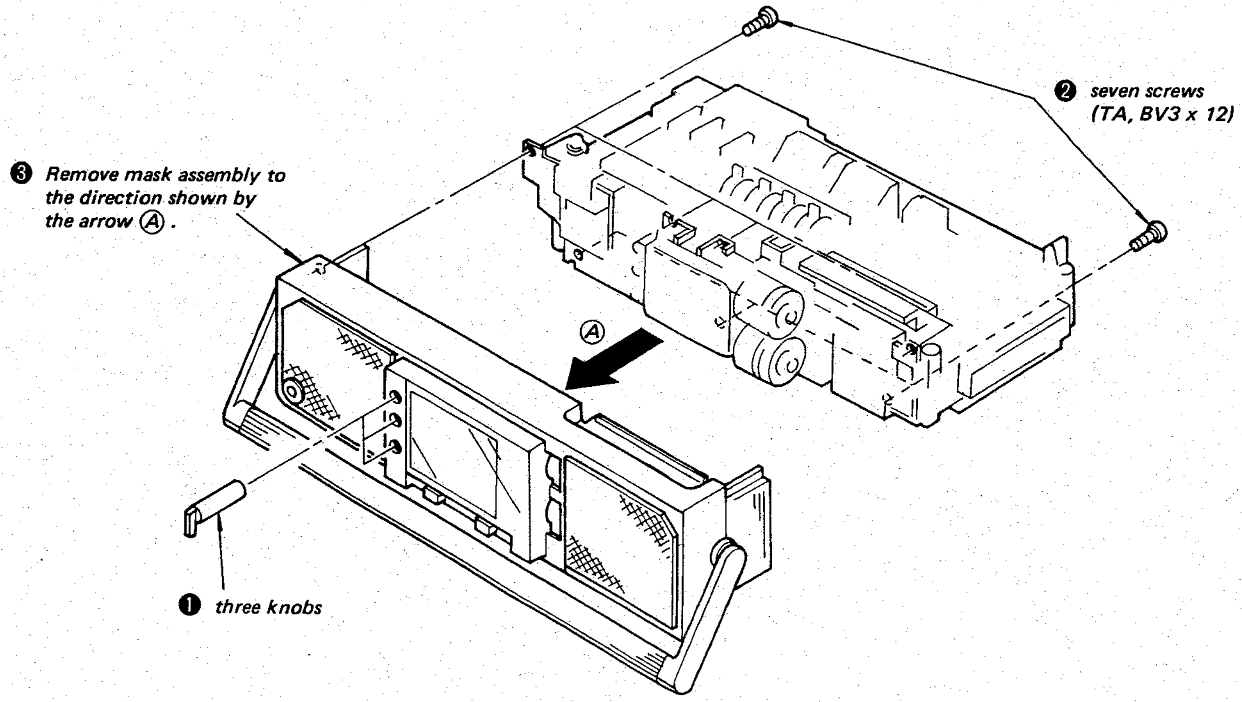

J301C REMOTE
S901 MD
10.5V
DRIVE AMP Q901
CONST CURRENT Q902
CURRENT BIAS-1 D901
MOTER DRIVE Q903, Q904
CURRENT BIAS-2 D902
Z
M
FG
(R)
(L)
(R)
RV782 BALANCE
RV781
VOLUME
L
ME701 LEVEL METER (L)
AGC BUFFER Q311
AGC RECT D306,307
AGC RECT D308,309
AGC BUFFER AMP Q411
R
AGC RECT D406,407
ME702 LEVEL METER (R)
Y
R
L
UHF/VHF SEPARATOR LC151
UHF TUNER BT-846
IN
OUT
S
AGC
VHF TUNER BT-806
SW
VIF AMP-3 VIDEO RECT VIDEO DRIVE Q203,204,205
VIF AMP -1,2 Q201,202
14
IF AMP
DET
PRE AMP
3
IC251
AGC AMP -1,2,3 Q206,207,208
S151-4 TV BAND SW
+4.2V
BAND SW Q151
BAND SW Q152
DC IN 12V J601
RV951 TV TUNE
RV151 +25V ADJ
+32V REG IC151
A
BATTERY
MUTING Q381,382
AUDIO AMP OUT
9
12
3
18
IC381
MUTING Q481,482
VIDEO OUT Q501
T801 FBT
HOR-BIAS D853
SYNC SEP Q551
AFC-1,2 D801,802
HOR OSC Q801
HOR DRIVE Q802
HOR OUT Q803
VER-BIAS D553
HOR ASSIST D803
HOR DAMPER D804
MV-1 RECT D851
HV RECT
MV-2 RECT D852
VER OSC Q552
VER DRIVE Q553
VER OUT-1,2 VER BIAS-1,2 Q554,555,D551,552
10.5V
REG DRIVE,OUT Q601,602
6V
J601B EXT SP(L)
J601C EXT SP(R)
SP951 (L)
SP952 (R)
HJ
J951 HEADPHONES
D.Y
V901 PICTURE TUBE CT-556
G2
L
R
RV751 BASS
S751-1-3 MIXING
10.5V
RV752 TREBLE
H1
MUTING Q373,374
H4
RECT D651~654
T951 P.T
120V AC 60Hz
F651
F652
POWER FILTER Q651
10.5V
POWER DRIVE Q652
REG D655
G

SECTION 2
DISASSEMBLY

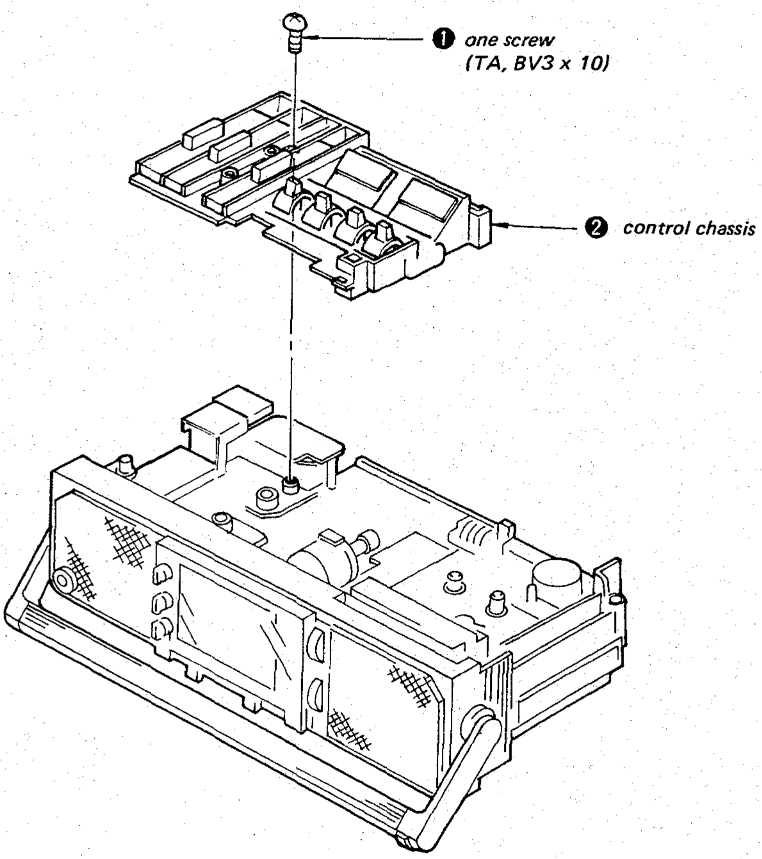
2-1. UPPER & LOWER CABINETS REMOVAL


❸ upper cabinet
❷ lower cabinet
❶ six screws
(TA, P4 x 80)

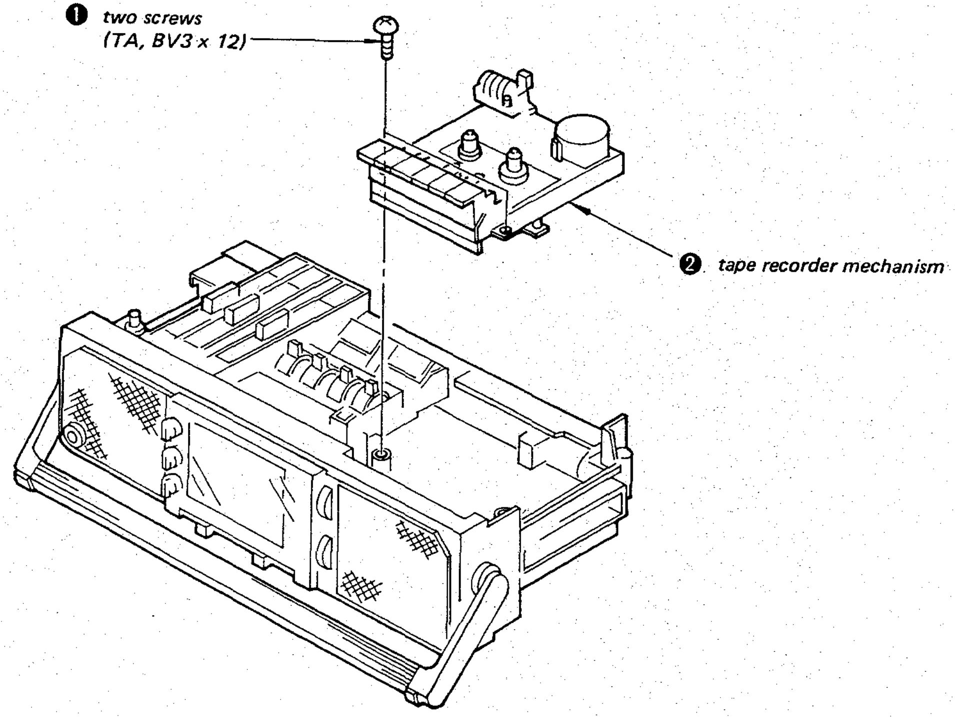
2-2. MASK ASSEMBLY REMOVAL


❷ seven screws
(TA, BV3 x 12)
❸ Remove mask assembly to the direction shown by the arrow Ⓐ.
Ⓐ
❶ three knobs

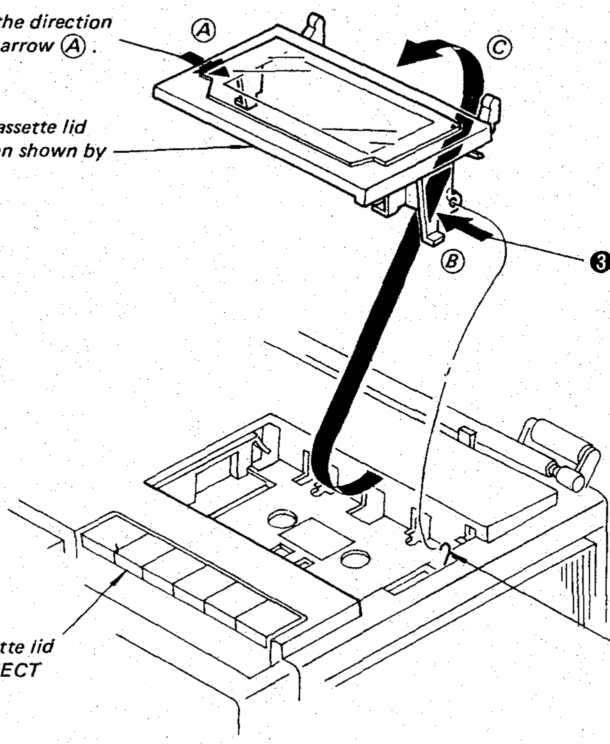
2-3. CONTROL CHASSIS REMOVAL


❶ *one screw*
(TA, BV3 x 10)
❷ *control chassis*

2-4. TAPE RECORDER MECHANISM REMOVAL


❶ *two screws*
(TA, BV3 x 12)
❷ *tape recorder mechanism*

2-5. CASSETTE LID REMOVAL



❶ *Open the cassette lid to press the EJECT button.*

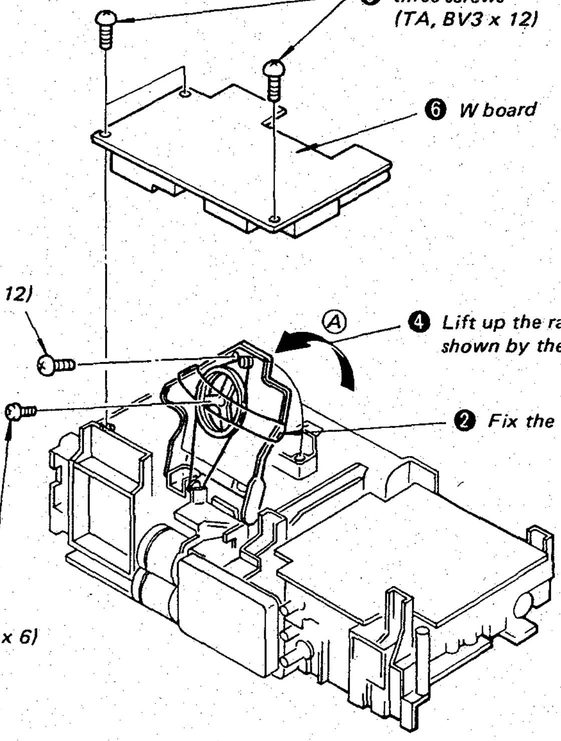
❷ *Press claw to the direction shown by the arrow Ⓐ.*

❸ *Press claw to the direction shown by the arrow Ⓑ.*

❹ *lid spring*

❺ *Remove the cassette lid to the direction shown by the arrow Ⓒ.*

2-6. W BOARD REMOVAL



❶ *one screw (BVTT2.6 x 6)*

❷ *Fix the dial drum with an adheasve tape.*

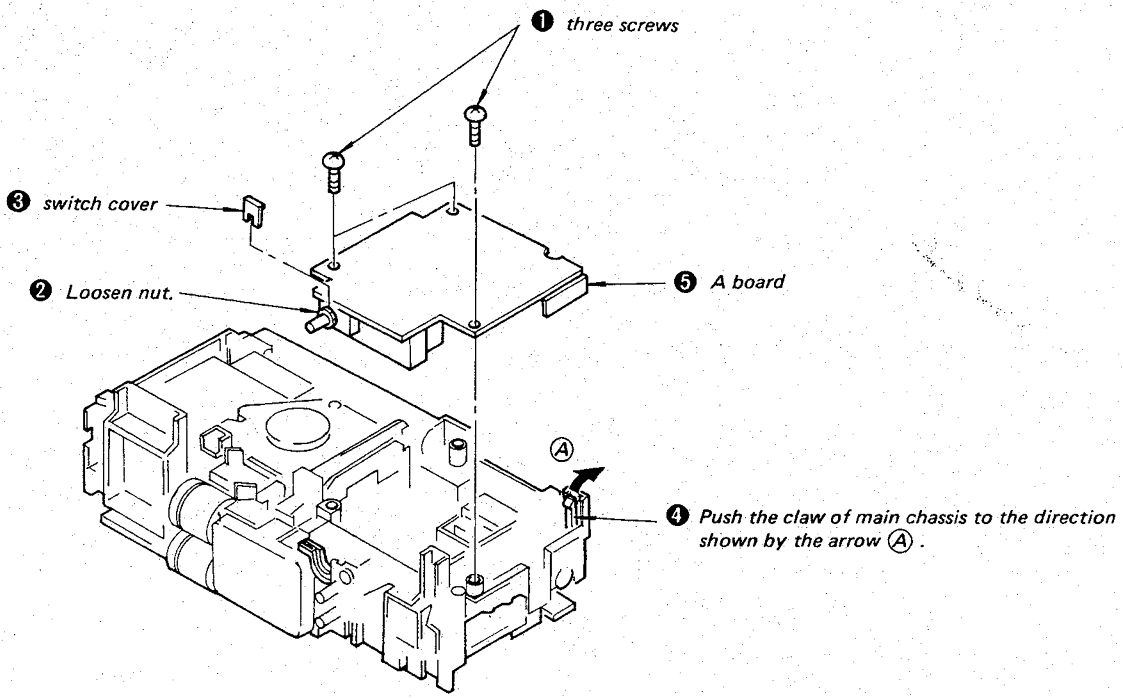
❸ *one screw (TA, BV3 x 12)*

❹ *Lift up the radio chassis (B) to the direction shown by the arrow Ⓐ.*

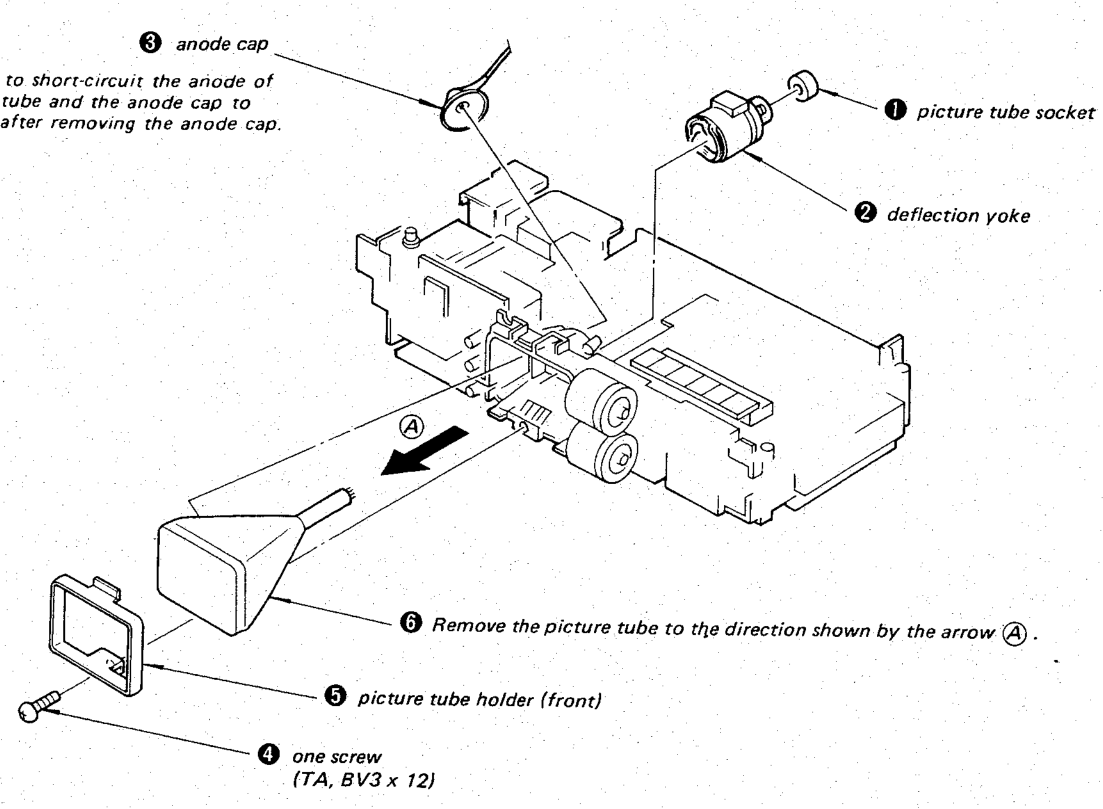
❺ *three screws (TA, BV3 x 12)*

❻ *W board*

2-7. A BOARD REMOVAL

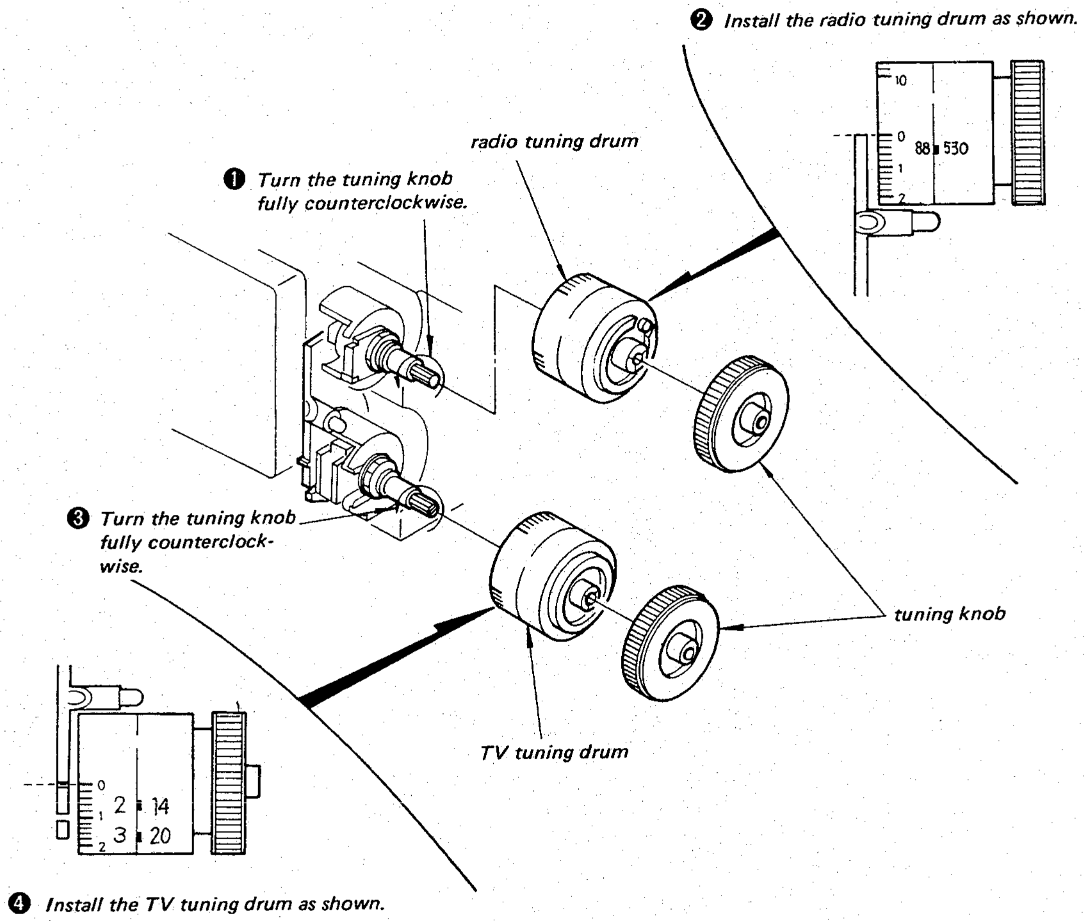

❶ three screws
❸ switch cover
❷ Loosen nut.
❺ A board
Ⓐ
❹ Push the claw of main chassis to the direction shown by the arrow Ⓐ .

2-8. PICTURE TUBE REMOVAL


❸ anode cap
❶ picture tube socket
❷ deflection yoke
Ⓐ
❻ Remove the picture tube to the direction shown by the arrow Ⓐ .
❺ picture tube holder (front)
❹ one screw
(TA, BV3 x 12)

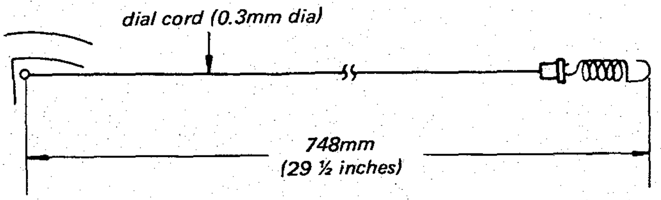
Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.

2-9. TUNING DRUM INSTALLATION

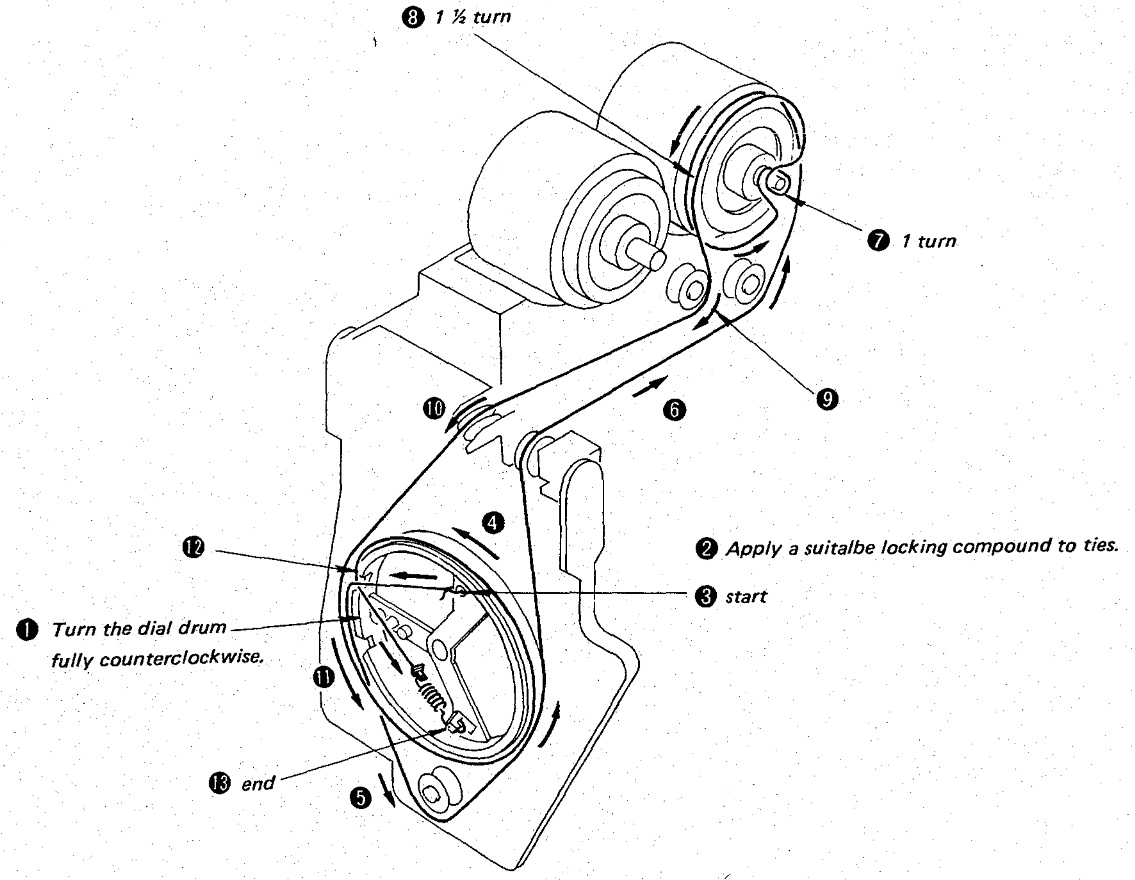

❷ Install the radio tuning drum as shown.
radio tuning drum
❶ Turn the tuning knob fully counterclockwise.
❸ Turn the tuning knob fully counterclockwise.
tuning knob
TV tuning drum
❹ Install the TV tuning drum as shown.
10
0
1
2
88
530
0
1
2
2
14
3
20

2-10. DIAL CORD STRINGING

(1) Preparation


dial cord (0.3mm dia)
748mm
(29 ½ inches)

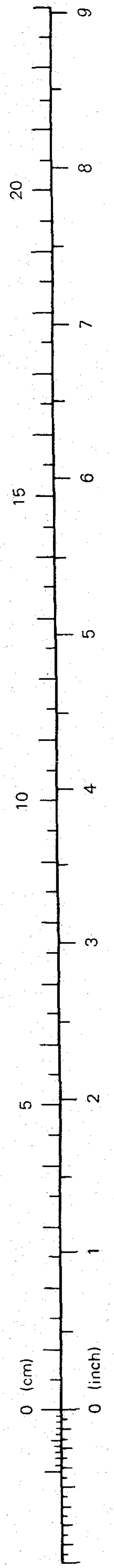
(2) Dial Cord Stringing


❽ 1 ½ turn
❼ 1 turn
❾
❿
❻
❹
⓬
⓫
⓭ end
❺

❶ Turn the dial drum fully counterclockwise.

❷ Apply a suitalbe locking compound to ties.

❸ start


0 (cm)
5
10
15
20
0 (inch)
1
2
3
4
5
6
7
8
9

SECTION 3
ADJUSTMENTS

3-1. TAPE RECORDER SECTION

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
   - record/playback head
   - erase head
   - capstan
   - pinch roller
   - rubber belts
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply a suitable locking compound to the parts adjusted.
5. These adjustments should be performed with 12V dc supplied to DC IN 12V jack, unless otherwise specified.

Note: Test Equipment Required

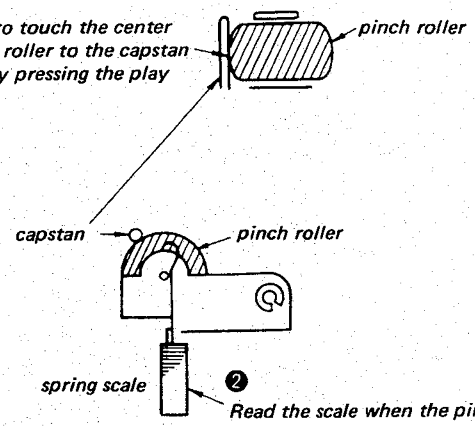
1. VTVM
2. Regulated DC Power Supply
3. Dc Ammeter
4. Speed Checker LFM-30 or Digital Frequency Counter
5. Af Oscillator
6. Attenuator
7. Spring Scale
8. Cassette Torque Meter CQ-102A and CQ201A
9. Test Tape P-4-A81S, WS-48 and P-4-L81
10. Blank Tape CS-4-1

Torque Adjustment

Mode	Sony Torque Meter	Specification
Forward	CQ-102A	23 – 55 g · cm (0.32 – 0.76 oz · inch)
Fast Forward	CQ-201A	50 g · cm or more (0.7 oz · inch or more)
Rewind	CQ-201A	55 g · cm or more (0.77 oz · inch or more)

Note: When the specification of Fast Forward or Rewind torque is not satisfied, clean the rubber portion of each idler. If necessary, replace the idler.

Pinch Roller Pressure Measurement



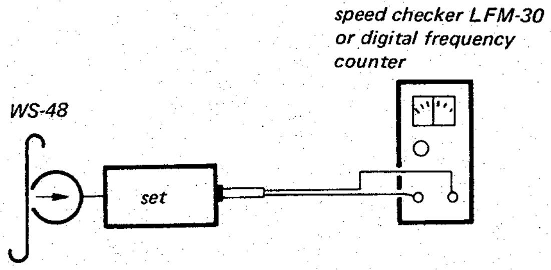
❶ *Be sure to touch the center of pinch roller to the capstan by slowly pressing the play button.*

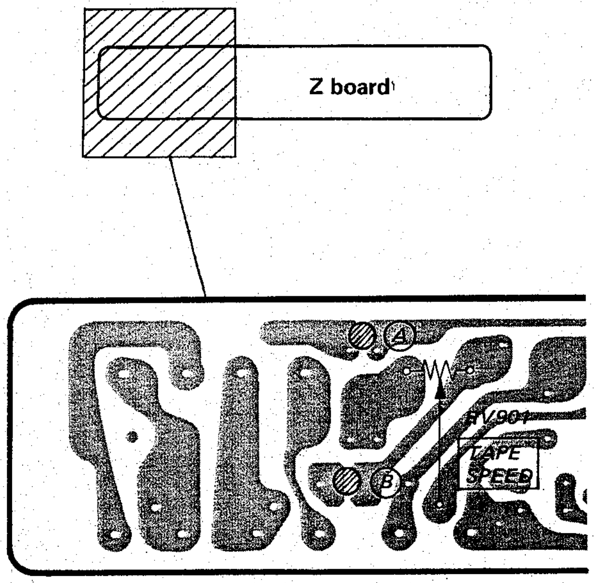
❷ *Read the scale when the pinch roller just touches the capstan and starts to rotate.*

Specification: 350 – 450 g
(1.25 – 1.55 oz)

Tape Speed Adjustment

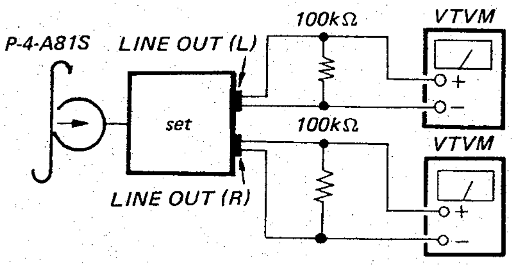
1. *Playback the test tape (WS-48).*
2. *Adjust RV901 for 3kHz ±30Hz on frequency counter or ± 1% on speed checker.*
3. *If necessary, solder Ⓐ or Ⓑ and repeat above step.*


speed checker LFM-30
or digital frequency
counter
WS-48
set

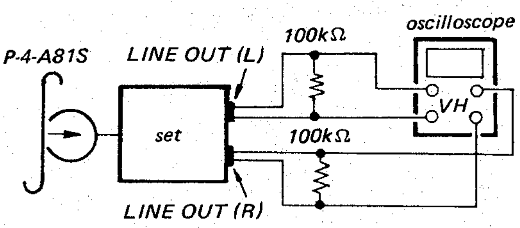

Z board
Ⓐ
Ⓑ
RV901
TAPE
SPEED

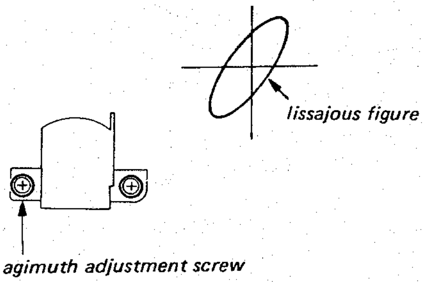
Record/Playback Head Azimuth Adjustment

1. *Playback the test tape (P-4-A81S)*


P-4-A81S
LINE OUT (L)
100kΩ
VTVM
+
−
set
100kΩ
VTVM
LINE OUT (R)
+
−

2. *Adjust the azimuth adjustment screw so that both left and right channel LINE OUT levels are maximum.*
3. *Adjust the azimuth adjustment screw finely so that the lissajous figure is linear.*


oscilloscope
P-4-A81S
LINE OUT (L)
100kΩ
VH
set
100kΩ
LINE OUT (R)

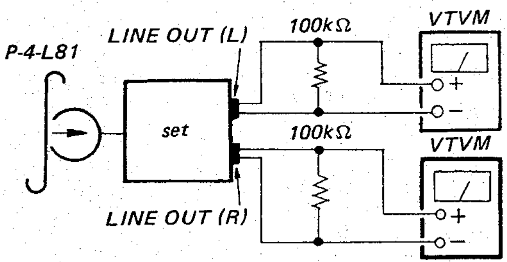

lissajous figure
agimuth adjustment screw

4. *Press the STOP and Playback buttons several times and confirm that LINE OUT levels do not change.*
5. *Apply a suitable locking compound to the adjustment screw.*

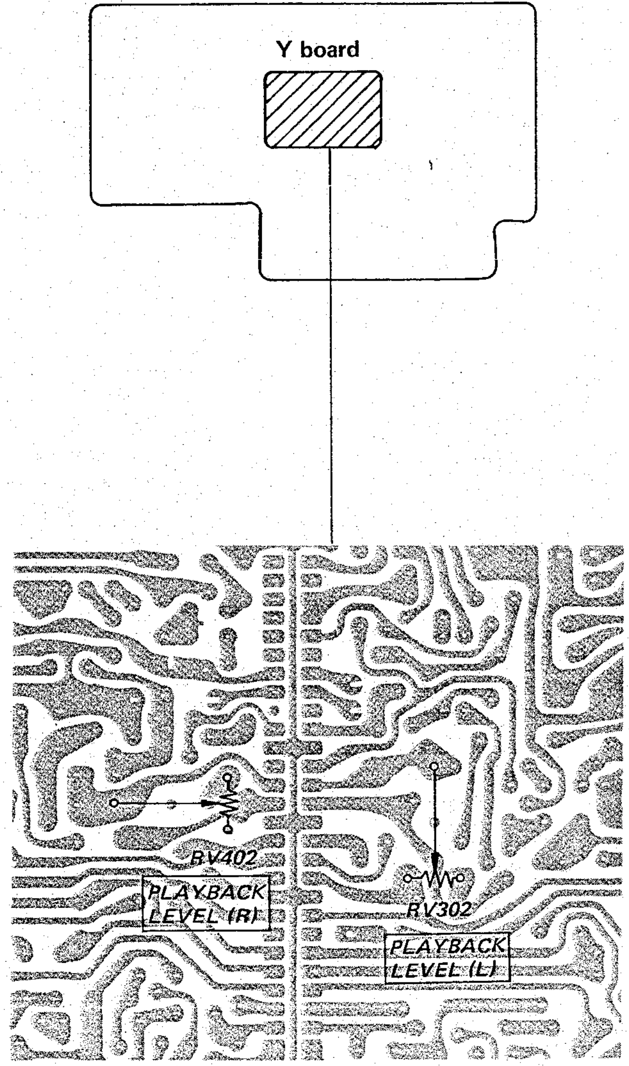
Note: Several peaks may appear, take the highest.

Playback Level Adjustment

1. *Playback the test tape (P-4-L81).*

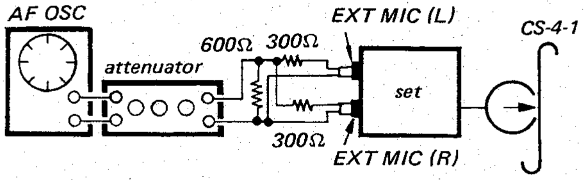

P-4-L81
LINE OUT (L)
100kΩ
VTVM
set
100kΩ
VTVM
LINE OUT (R)
+
−
+
−

2. *Adjust RV302 (L-CH) and RV402 (R-CH) so that the LINE OUT levels are 0.42V to 0.58V (−5.5dB to −2.5dB).*

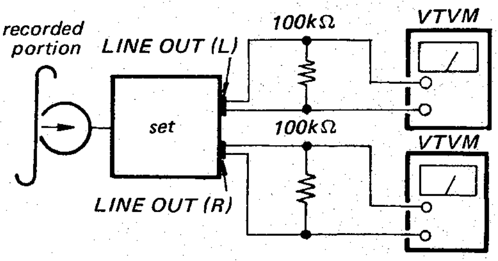

Y board
RV402
PLAYBACK LEVEL (R)
RV302
PLAYBACK LEVEL (L)

Record Bias Adjustment

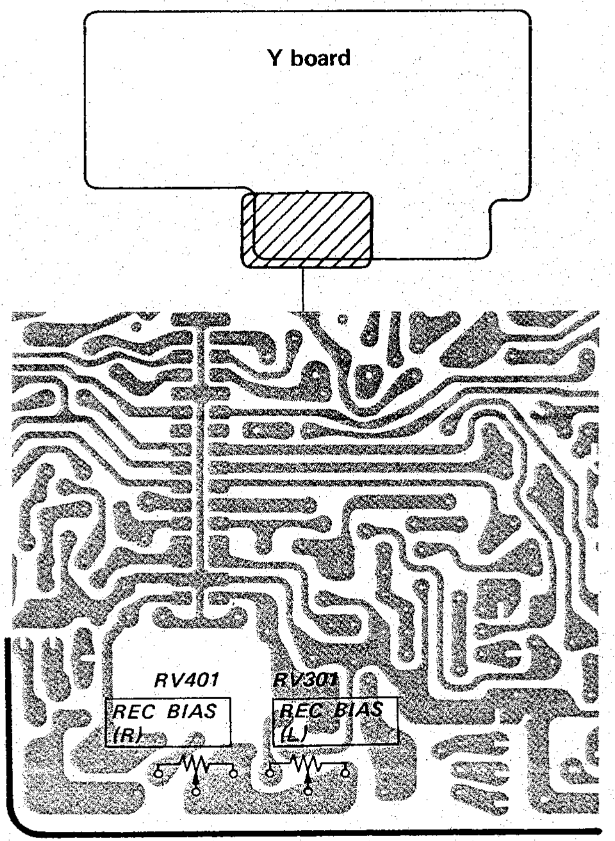
1. *Record −80dB 600Hz and 6kHz signals.*


AF OSC
EXT MIC (L)
CS-4-1
600Ω
300Ω
attenuator
set
300Ω
EXT MIC (R)

2. *Playback recorded portion and confirm that the level difference between 6kHz output and 600Hz output is within ± 1dB.*

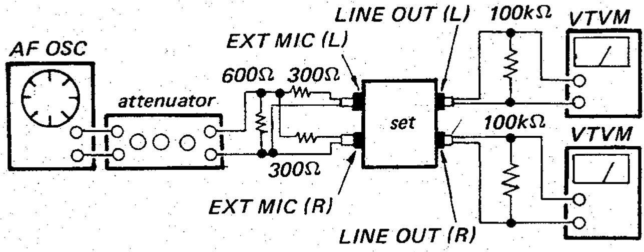

recorded portion
LINE OUT (L)
100kΩ
VTVM
set
100kΩ
VTVM
LINE OUT (R)

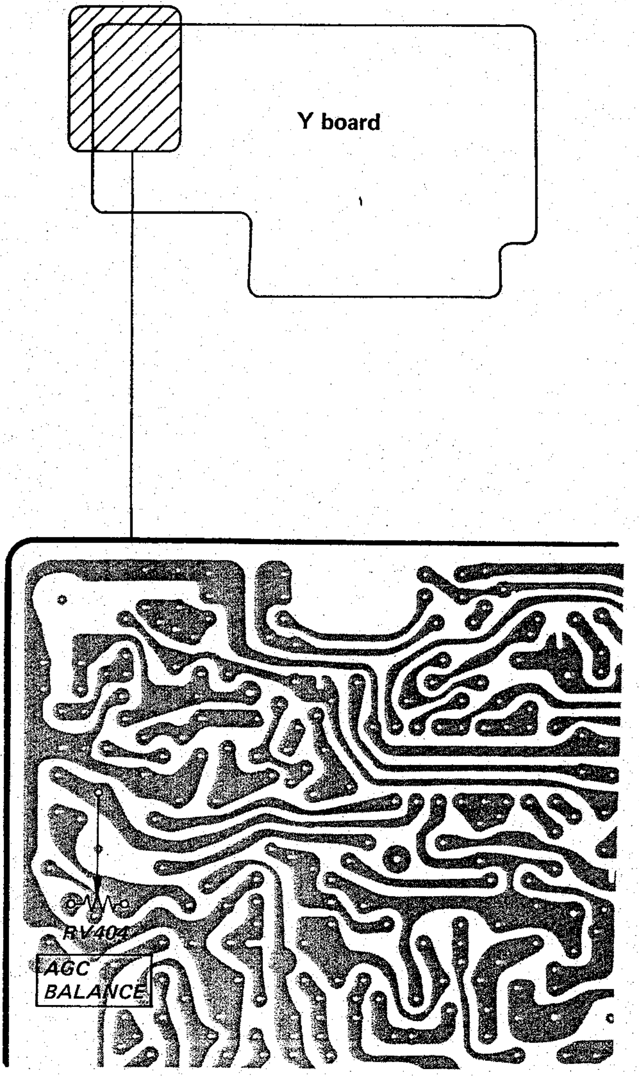
3. *If necessary, adjust RV301 (L-CH) and RV401 (R-CH) and repeat above steps several time.*


Y board
RV401
REC BIAS (R)
RV301
REC BIAS (L)

AGC Balance Adjustment

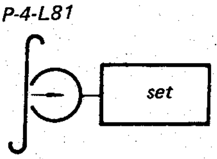
1. *Apply 1kHz (–45dB) signal to left and right EXT MIC jacks.*
2. *Adjust RV404 so that the LINE OUT level of right channel equal to that of left channel.*


LINE OUT (L)
100kΩ
VTVM
AF OSC
EXT MIC (L)
600Ω
300Ω
attenuator
set
100kΩ
VTVM
300Ω
EXT MIC (R)
LINE OUT (R)

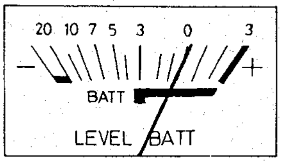

Y board
RV404
AGC BALANCE

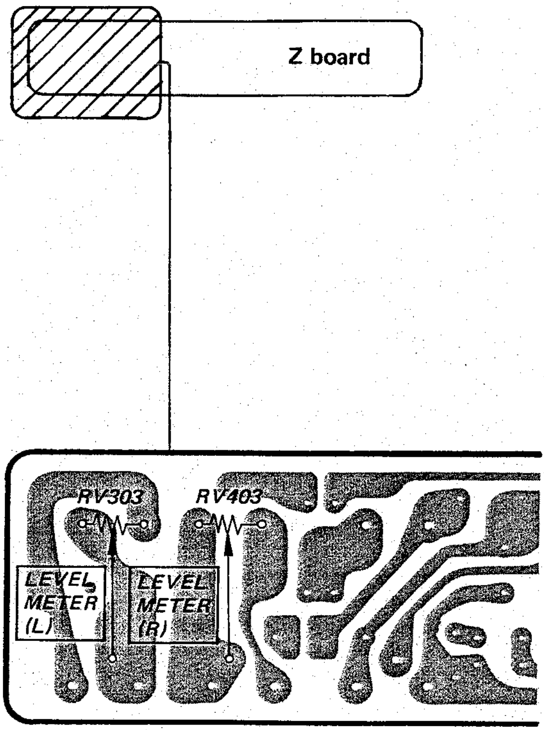
Level Meter Adjustment

1. *Playback the test tape (P-4-L81)*



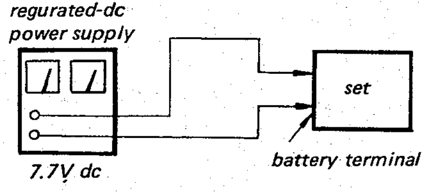
2. *Adjust RV303 (L-CH) and RV403 (R-CH) so that pointer indicates 0.*


20 10 7 5 3 0 3
–
+
BATT
LEVEL
BATT

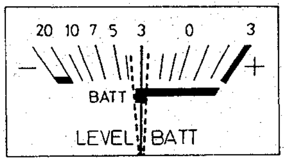

Z board
RV303
RV403
LEVEL METER (L)
LEVEL METER (R)

Battery Meter Adjustment

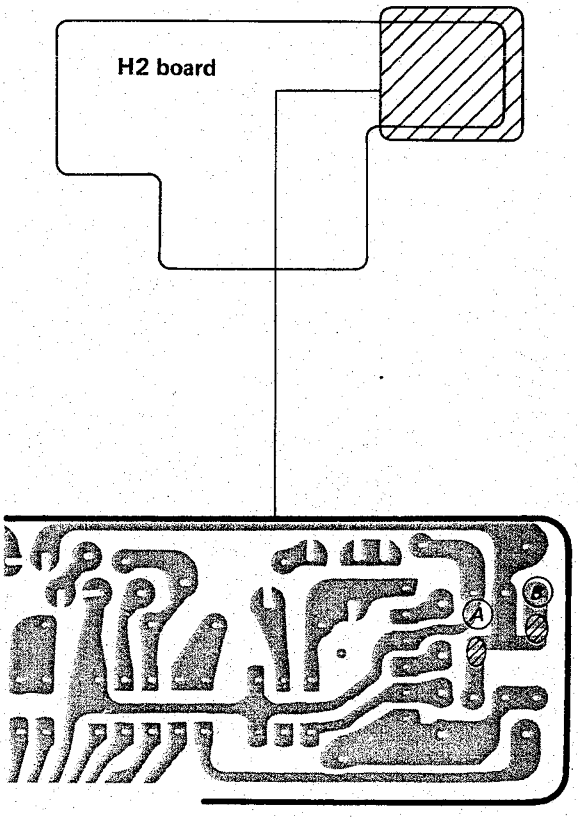
1. *Apply 7,7V dc on battery terminals.*


regurated-dc
power supply
set
battery terminal
7.7V dc

2. *Tune in a TV off-air signal.*
3. *Set the METER switch to BATT position.*
4. *Confirm that pointer indicates as shown below.*
5. *If necessary, change the soldering portion*

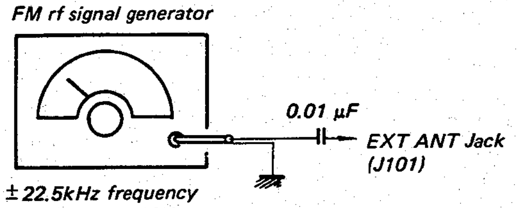

20 10 7 5 3 0 3
−
+
BATT
LEVEL
BATT

soldering portion	**pointer diflection**
Ⓐ	−
Ⓐ and Ⓑ	
open	
Ⓑ	+

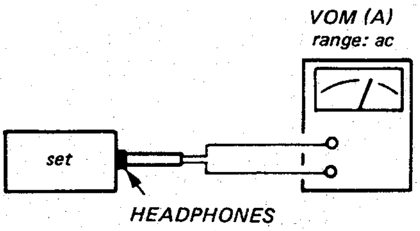


3-2. RADIO SECTION

(1) FM


FM rf signal generator
0.01 µF
EXT ANT Jack
(J101)

± 22.5kHz frequency deviation by 400Hz signal (modulation turned off for IF Alignment 2).


VOM (A)
range: ac
set
HEADPHONES

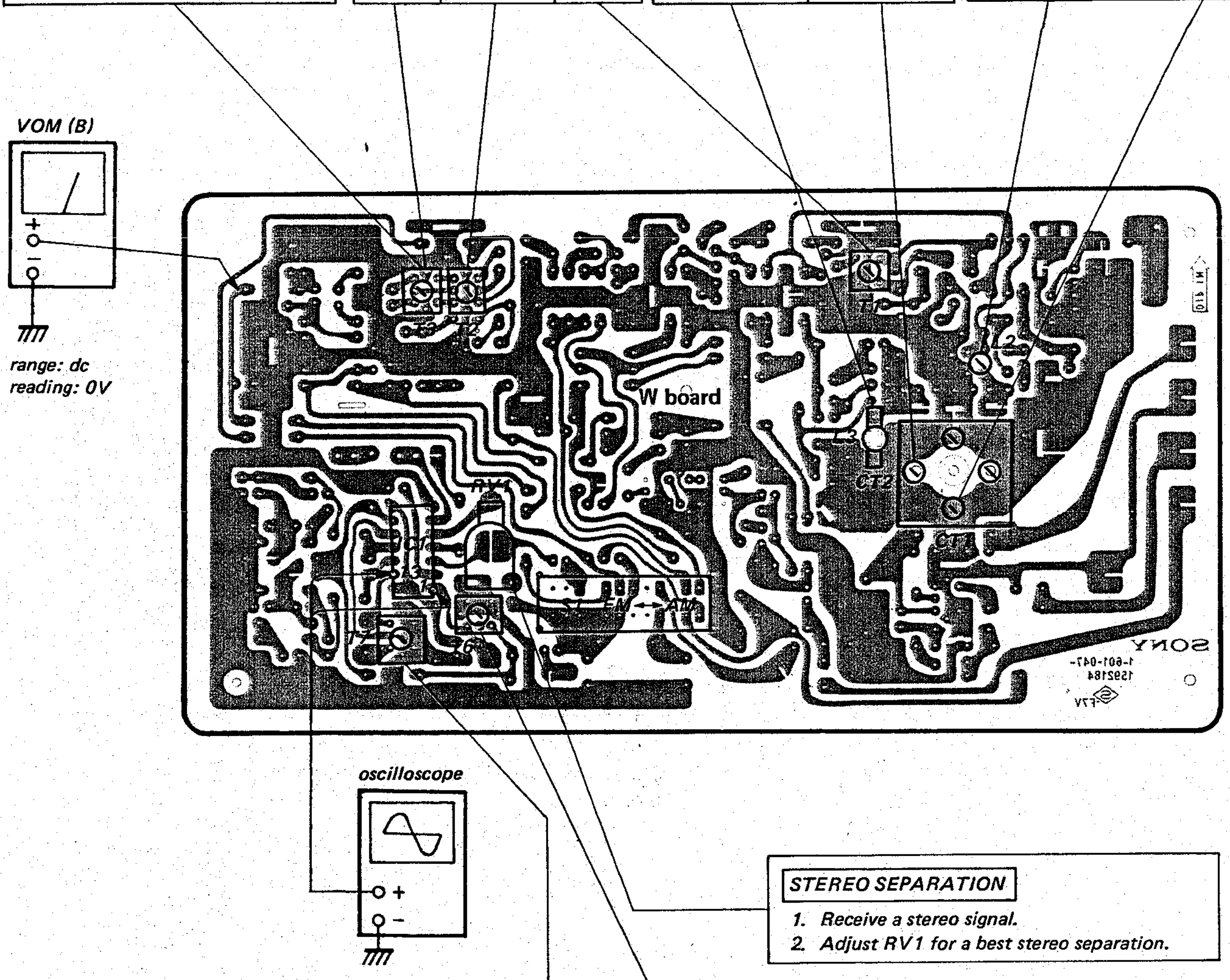
Note: Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM IF ALIGNMENT (2)
Adjust for 0V reading on VOM (B).
10.7MHz (with no modulation)
T3

FM IF ALIGNMENT (1)		
Adjust for a maximum reading on VOM (A).		
10.7MHz (with modulation)		
T3	T2	T1

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM (A).	
87.1MHz	108.5MHz
L3	CT2

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM (A).	
87.1MHz	108.5MHz
L2	CT1


VOM (B)
+
−
range: dc
reading: 0V
W board
T2
L3
CT2
CT1
RV1
T7
T6
FM
AM
oscilloscope
+
−

STEREO SEPARATION

1. *Receive a stereo signal.*
2. *Adjust RV1 for a best stereo separation.*

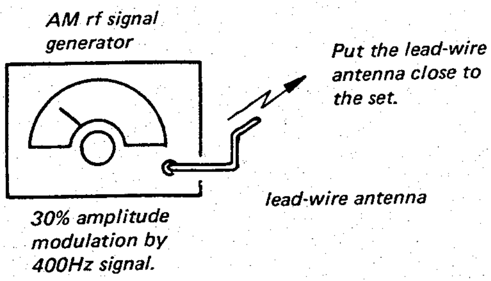
38kHz ADJ

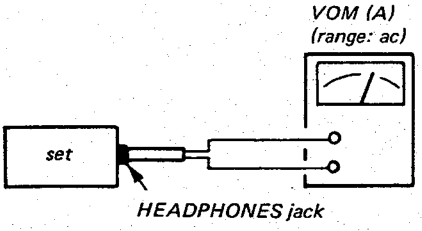
1. *Connect an oscilloscope to pin 13 of IC1.*
2. *Receive a stereo signal.*
3. *Adjust T7 for a maximum level of waveform on the oscilloscope.*

19kHz ADJ

1. *Connect an oscilloscope to pin 1 of IC1.*
2. *Receive a stereo signal.*
3. *Adjust T6 for a maximum level of waveform on the oscilloscope.*

(2) AM

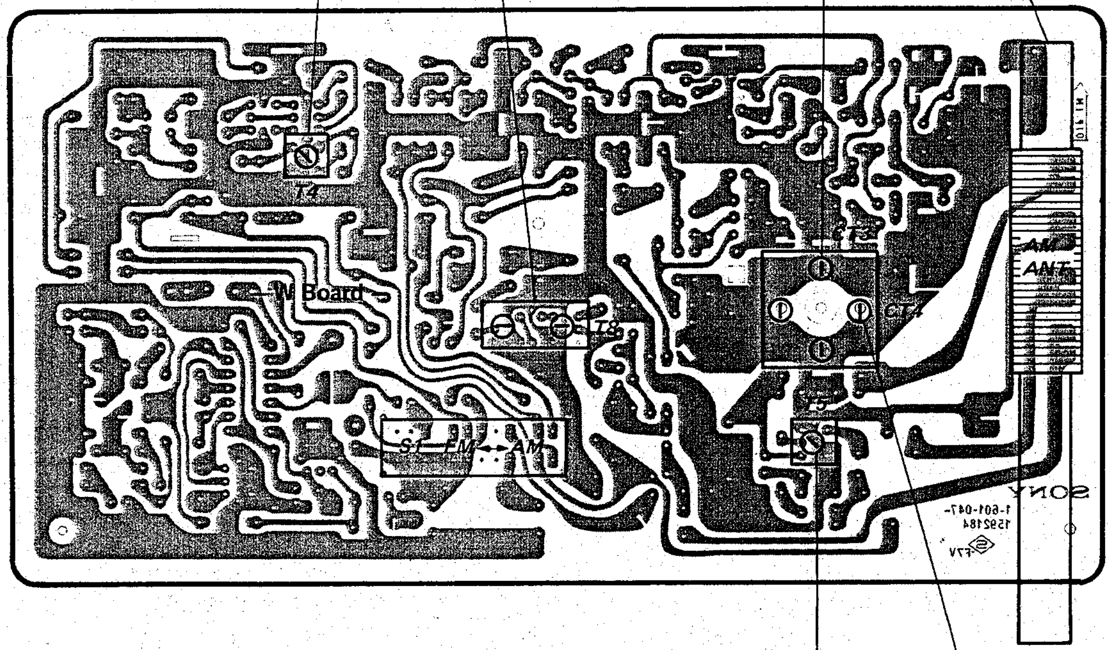

AM rf signal generator
Put the lead-wire antenna close to the set.
lead-wire antenna
30% amplitude modulation by 400Hz signal.


VOM (A)
(range: ac)
set
HEADPHONES jack

Note: Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ALIGNMENT	
Adjust for a maximum reading on VOM (A).	
455kHz	
T4	T8

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM (A).	
620kHz	1,400kHz
CT3	AM ANT


T4
W Board
T8
CT3
CT4
AM ANT
T5
S1 FM AM
SONY
1-601-047-
1592184

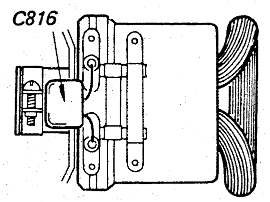
T5	CT4
520kHz	1,680kHz
Adjust for a maximum reading on VOM (A).	
AM FREQUENCY COVERAGE ADJUSTMENT	

3-3. TV SECTION

A BOARD ADJUSTMENTS

H SIZE

1. Complete preparations.
2. Select a capacitance of C816 for a best picture size.



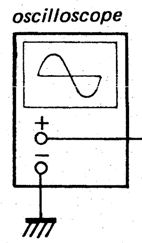
Capacitance	Picture size
Open	narrow
0.0022μF/100V	↑
0.0033μF/100V	
0.0047μF/100V	
0.0068μF/100V	↓
0.0082μF/100V	wide

U ADJ

1. Set the TV tuning dial to the receivable UHF broadcasting channel 19.
2. Adjust RV153 to obtain a best picture and sound.

DET OUT ADJ

1. Feed in a colour-bar signal from a colour-bar/pattern generator.
2. Connect an oscilloscope at the emitter of Q205.
3. Adjust RV201 for 0.7 ± 0.1Vp-p waveform on the oscilloscope.

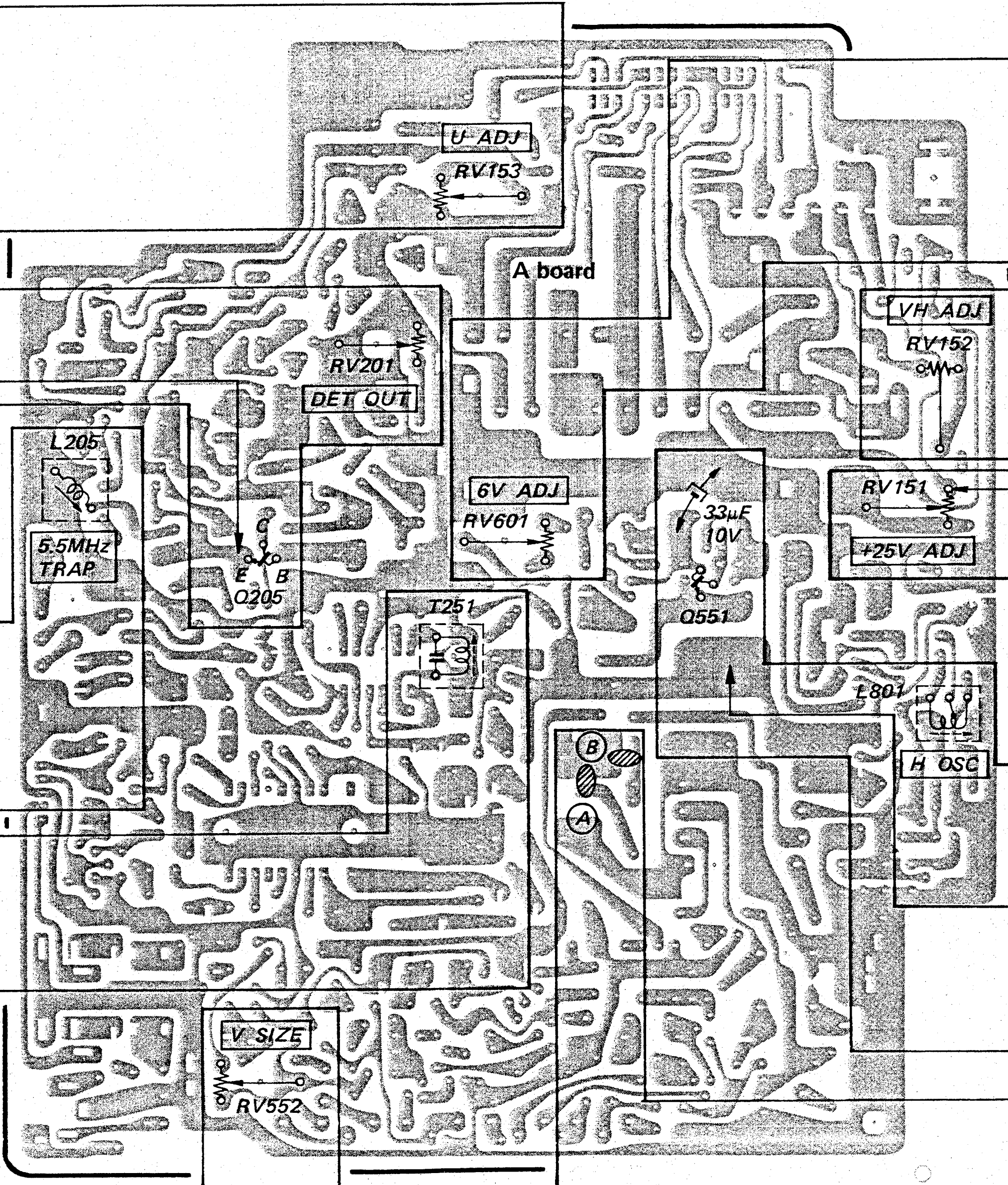

oscilloscope
+
−

4.5MHz TRAP

1. Complete preparations.
2. Connect an oscilloscope at the emitter of Q205.
3. Turn the TV tuning knob upward to obtain 4.5MHz beat on the oscilloscope.

SIF (CCIR) ADJ

1. Tune in a CCIR TV off-air signal.
2. Adjust T251 for a maximum clear sound.

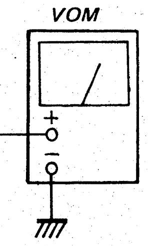

U ADJ
RV153
A board
RV201
DET OUT
L205
5.5MHz TRAP
C
E
B
Q205
6V ADJ
RV601
33μF
10V
Q551
T251
VH ADJ
RV152
RV151
+25V ADJ
L801
H OSC
B
A
V SIZE
RV552

6V ADJ

1. Apply 12V dc to the DC IN 12V jack.
2. Set Function switch (S701) to TV position.
3. Tune in a TV off-air signal and set CONTR and BRT controls to maximum position.
4. Adjust RV601 for 6,2V ± 0.05V dc on VOM.

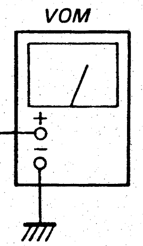
VH ADJ

1. Set the TV tuning dial to the receivable VHF broadcasting channel above 5 channel.
2. Adjust RV152 to obtain a best picture and sound.



+25V ADJ

1. Set the TV band selector to VHF position.
2. Turn the TV tuning knob fully downward.
3. Adjust RV151 for 29.0V ± 0.2V dc on VOM.



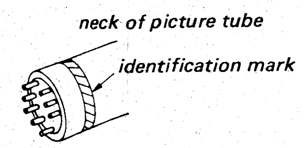
H OSC

1. Complete preparations.
2. Connect 33μF/10V electrolytic capacitor during this adjustment as shown.
3. Adjust L808 to synchronize the picture.

V SIZE

1. Tune in an off-air signal.
2. Adjust RV552 for a best picture size.

SCRN

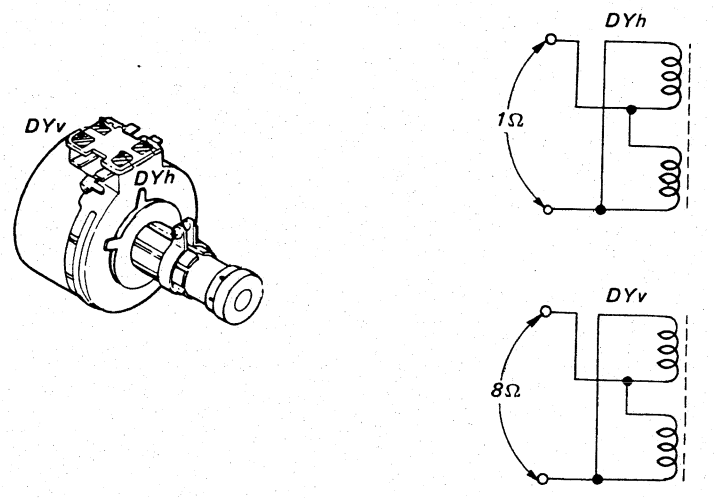

neck of picture tube
identification mark

Identification Mark	Soldering Portion
No mark	Ⓐ
Black	Ⓑ
Red	Open

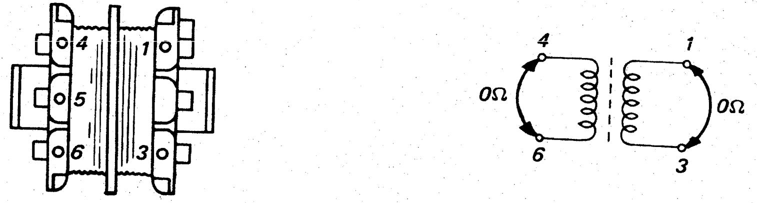
SECTION 4
DIAGRAMS

4-1. DC RESISTANCE AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS

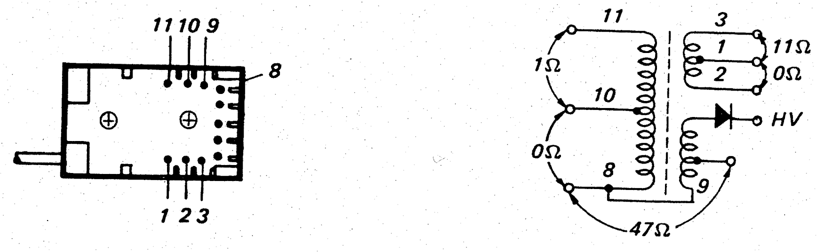
L901 DY


DYv
DYh
DYh
1Ω
DYv
8Ω

T401 HT


4
1
5
6
3
4
1
0Ω
0Ω
6
3

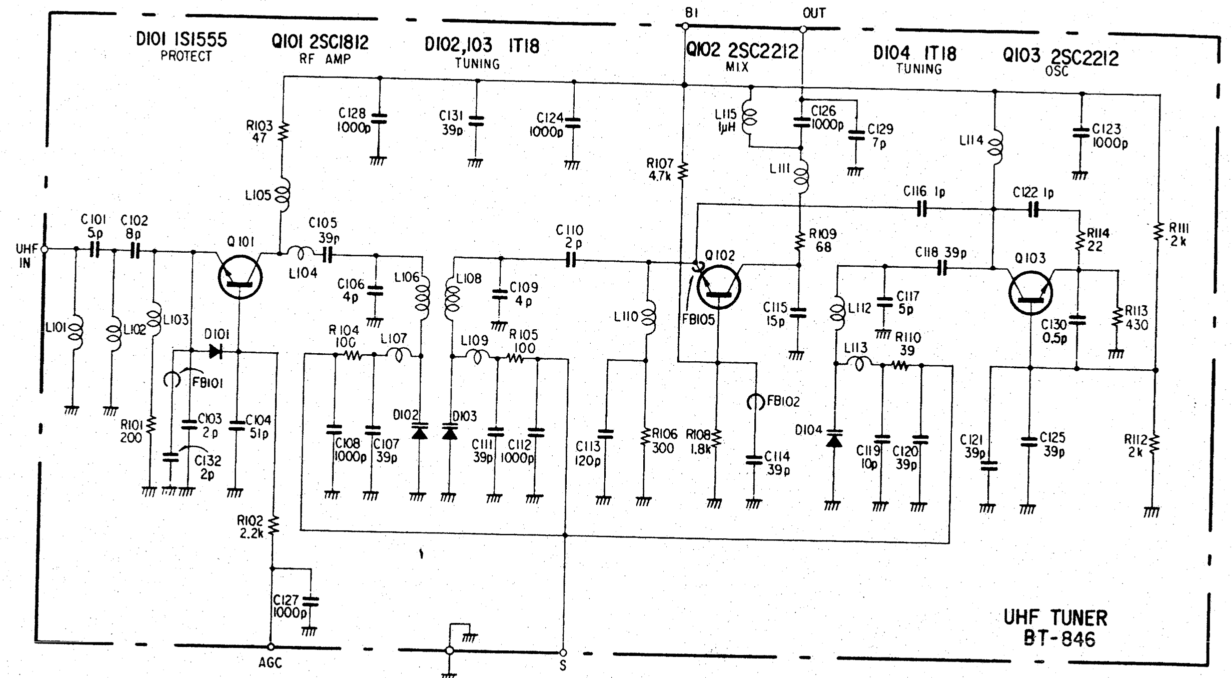
T801 FBT


11 10 9
8
1 2 3
11
3
1Ω
1
11Ω
2
0Ω
10
HV
0Ω
8
9
47Ω

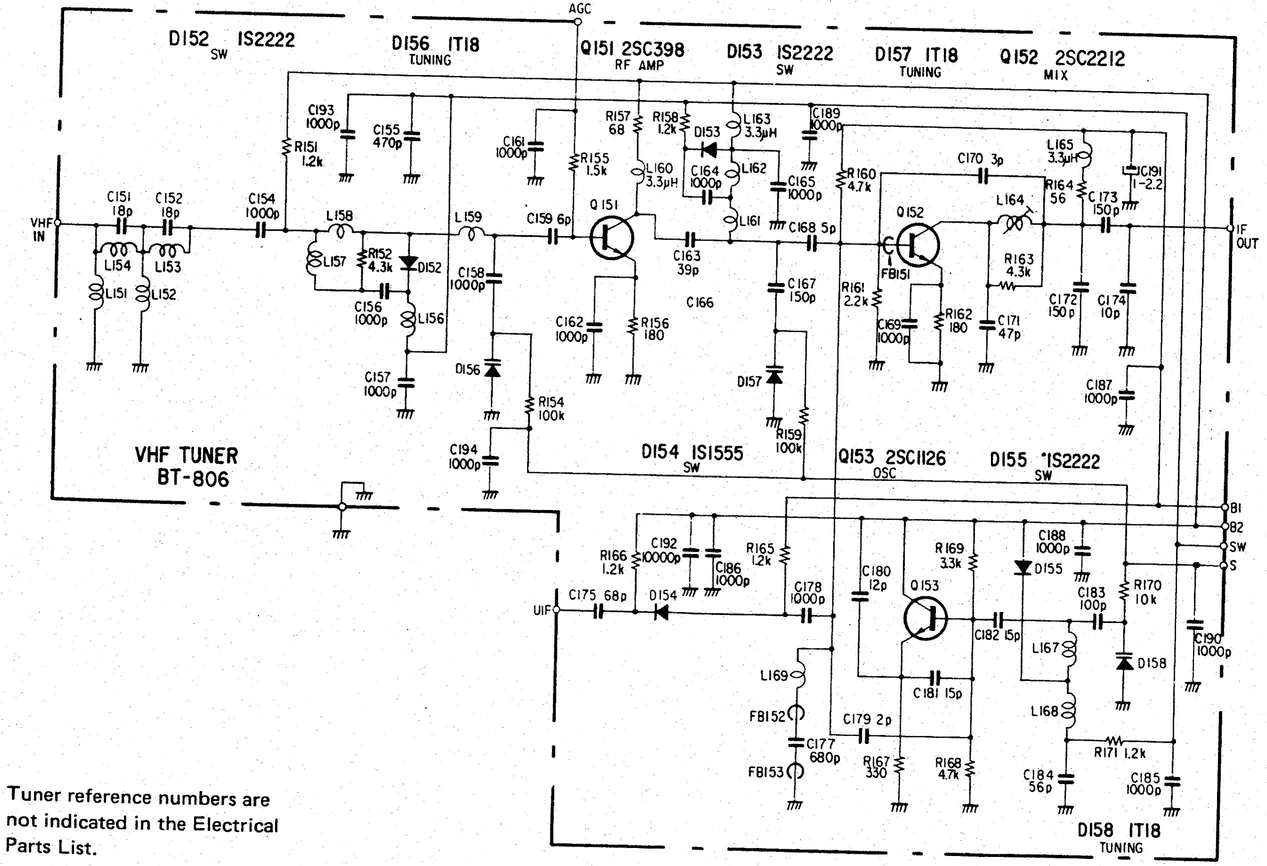
Note:
DC resistance measurements shown with coils and transformers disconnected from circuit.

4-2. VHF AND UHF TUNER SCHEMATIC DIAGRAMS

– UHF Tuner –
(BT-846)


B1
OUT
D101 1S1555
PROTECT
Q101 2SC1812
RF AMP
D102,103 1T18
TUNING
Q102 2SC2212
MIX
D104 1T18
TUNING
Q103 2SC2212
OSC
UHF IN
AGC
S
UHF TUNER
BT-846

– VHF Tuner –
(BT-806)


AGC
D152 1S2222
SW
D156 1T18
TUNING
Q151 2SC398
RF AMP
D153 1S2222
SW
D157 1T18
TUNING
Q152 2SC2212
MIX
VHF IN
IF OUT
VHF TUNER
BT-806
D154 1S1555
SW
Q153 2SC1126
OSC
D155 1S2222
SW
B1
B2
SW
S
UIF
D158 1T18
TUNING

Note: Tuner reference numbers are not indicated in the Electrical Parts List.

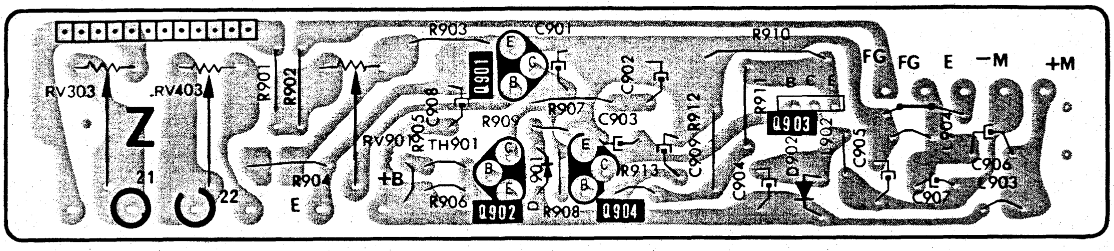
4-3. MOUNTING DIAGRAMS

X1 H7 H6 H4 [MOTOR DRIVE] **Z**

A B C D

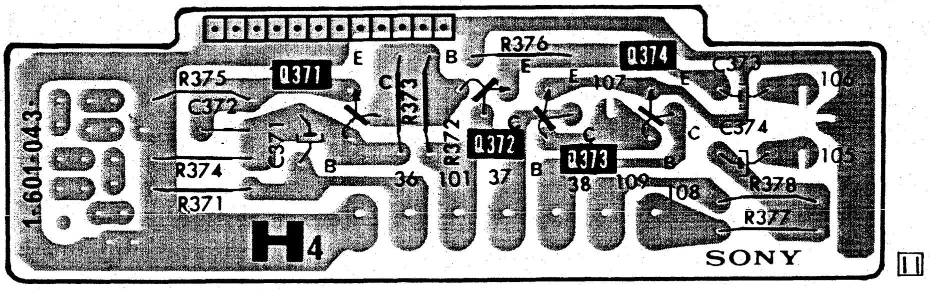
1

– Z Board –


RV303
RV403
Z
21
22
R901
R902
R903
C901
Q901
E
C
B
RV901
R905
C908
TH901
R904
+B
E
R906
Q902
D901
R909
R907
C902
C903
R908
Q904
R913
C909
R912
R910
FG
FG
E
–M
+M
R911
Q903
D902
C904
C905
D903
C906
C907
R914

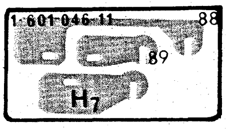
2

– H4 Board –

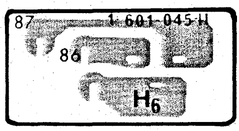

1-601-043-
R375
Q371
C372
C371
R374
R371
E
C
B
R373
R372
Q372
R376
Q374
C373
C374
Q373
36
101
37
38
109
108
107
106
105
R378
R377
SONY
H4

3

– H7 Board –

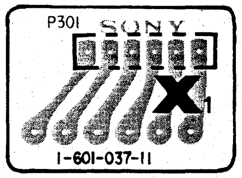

1-601-046-11
88
89
H7

– H6 Board –


87
1-601-045-11
86
H6

4

– X1 Board –


P301
SONY
X1
1-601-037-11

5

G [POWER] **L** **X4**

A B C D

1

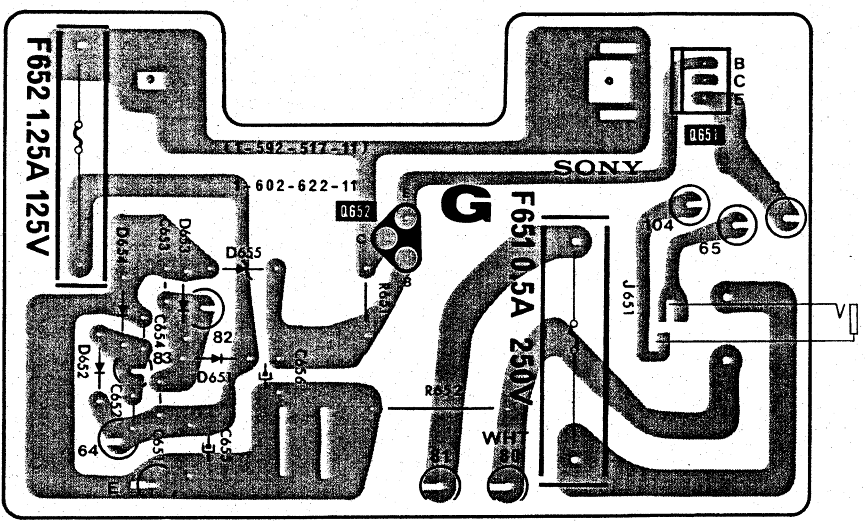
2

3

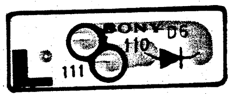
4

5

– G Board –

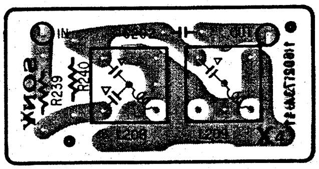

F652 1.25A 125V
1-592-517-11
602-622-11
Q652
G
SONY
Q651
B
C
E
F651 0.5A 250V
104
65
J651
D655
D653
C653
D654
C654
82
83
D651
D652
C652
C656
R652
64
C651
C655
WHT
81
80
E

– L Board –


SONY
D6
110
111
L

1-601-034-11

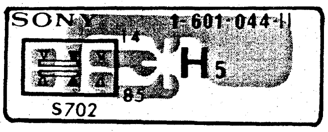
– X4 Board – (Canadian model only)


R239
R240
X4

A B C D

1

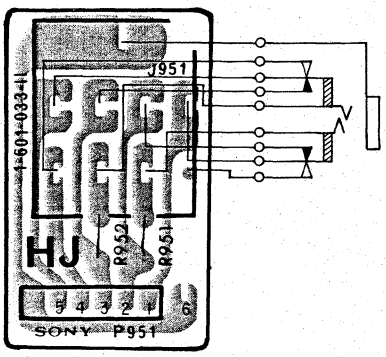
– H5 Board –


SONY
1-601-044-11
14
85
H5
S702

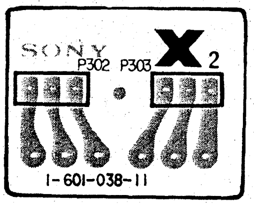
2

3

– HJ Board –


J951
1-601-033-11
HJ
R952
R951
5 4 3 2 1
6
SONY
P951

– X2 Board –


SONY
P302
P303
X2
1-601-038-11

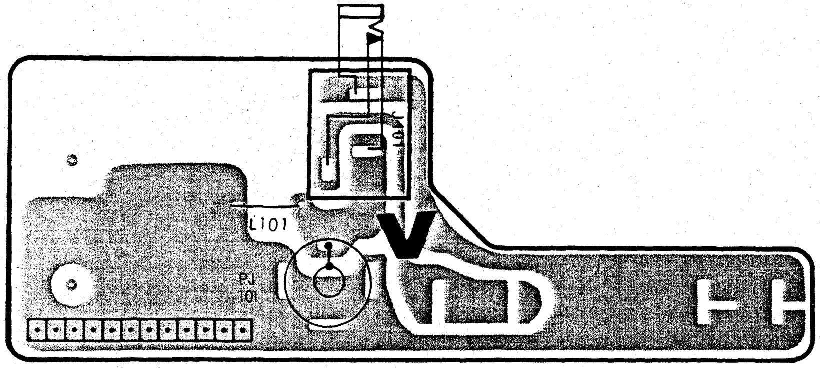
4

H2 **V**

A B C D

1

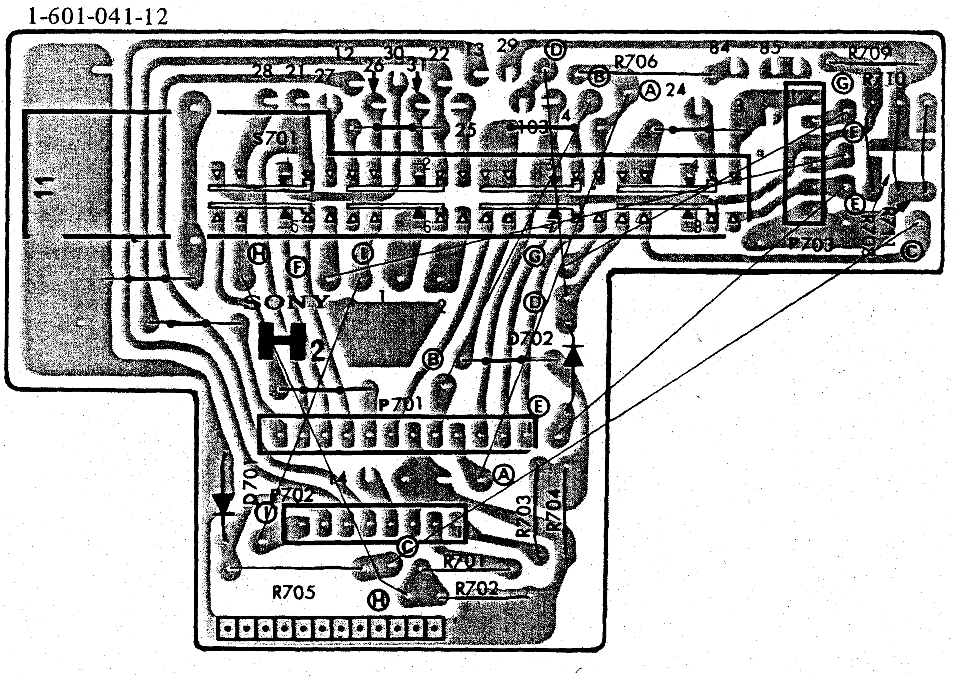
– V Board –


L101
PJ
101
V

2

– H2 Board –

3


1-601-041-12
12
30
22
13
29
28
21
27
26
31
25
R706
84
85
R709
R710
24
S701
C103
4
11
P703
R707
SONY
H2
1
2
D702
P701
D701
R702
R703
R704
R701
R705
A
B
C
D
E
F
G
H
I

4

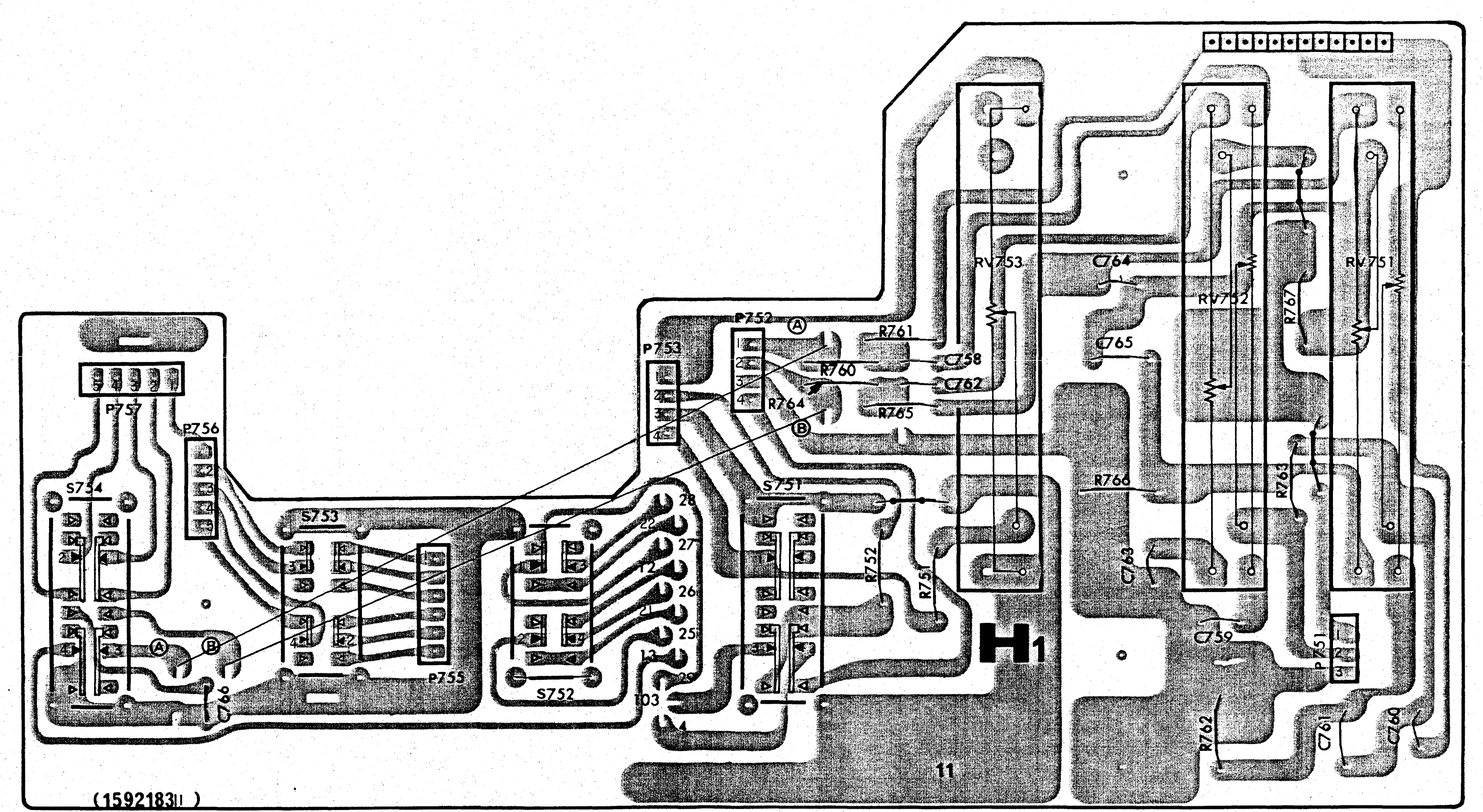
5

[MIXING] **H1** **H1**

A B C D E F G

1 2 3 4 5

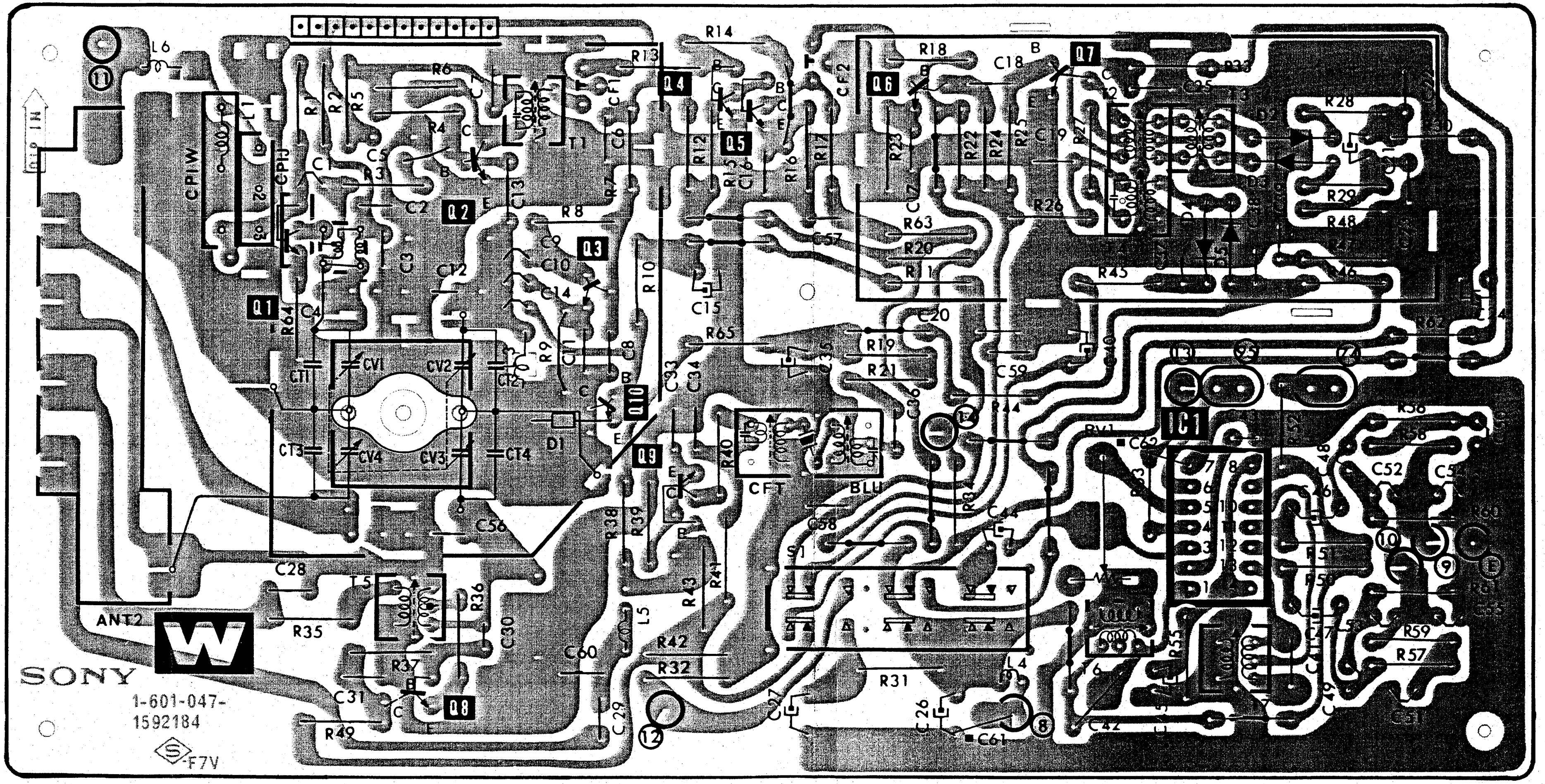
– H1 Board –


P757
P756
S754
S753
P755
S752
P753
P752
Ⓐ
Ⓑ
R760
R764
R761
C758
C762
R765
S751
R752
R751
RV753
C764
C765
RV752
R767
RV751
R766
R763
C763
C759
P751
R762
C761
C760
28
27
12
26
25
13
29
103
11
H1
(1592183)

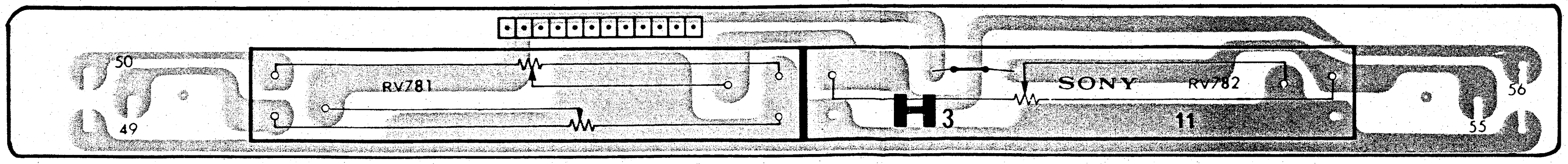
1-601-040-11

– W Board –

	A	B	C	D	E	F
Q·IC		1	2, 3, 4, 5, 10, 8, 9	6	7, IC1	
D			1		4, 5, 3, 2	
ADJ					RV1	


W
SONY
1-601-047-
1592184
F7V
ANT2
IN
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
IC1
D1
CV1
CV2
CV3
CV4
CF1
BLU
RV1
[11]

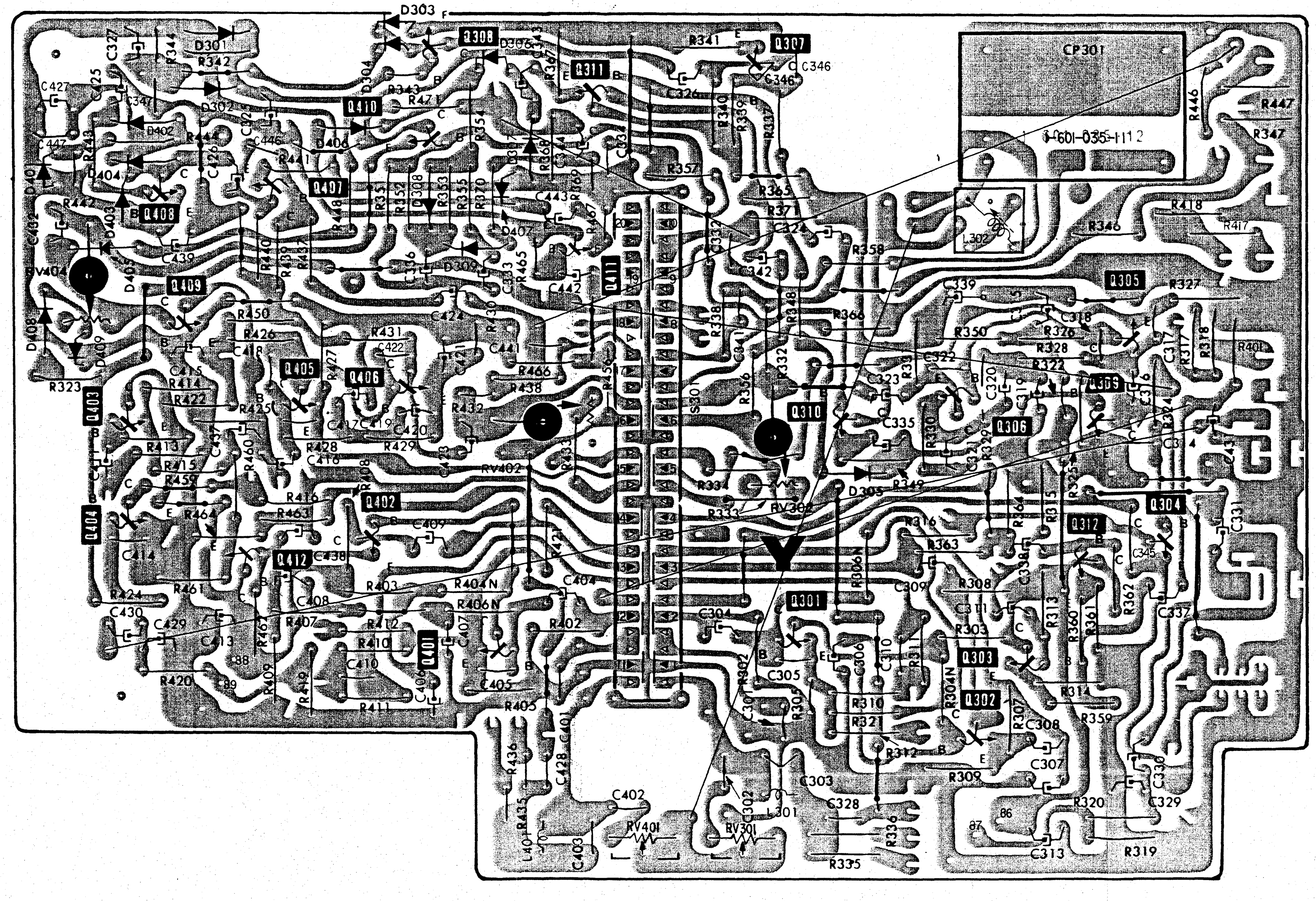
– H3 Board –


50
49
RV781
H3
SONY
RV782
11
56
55

1-601-042-11

	A	B	C	D	E	F	G	
Q		403 408 404 409	407 410 405 406 412 402 401	308 311 411	307 310 301 303 302	306 305 309 304 312		Q
D		401 402 408 404 409 403 405	301 302 303 304 406 308	306 309 307 407	305			D
ADJ		RV404		RV402 RV401 RV301	RV302			ADJ

– Y Board –


CP301
1-601-035-11 2
Y
RV404
RV402
RV401
RV301
RV302
L302
L301
L401

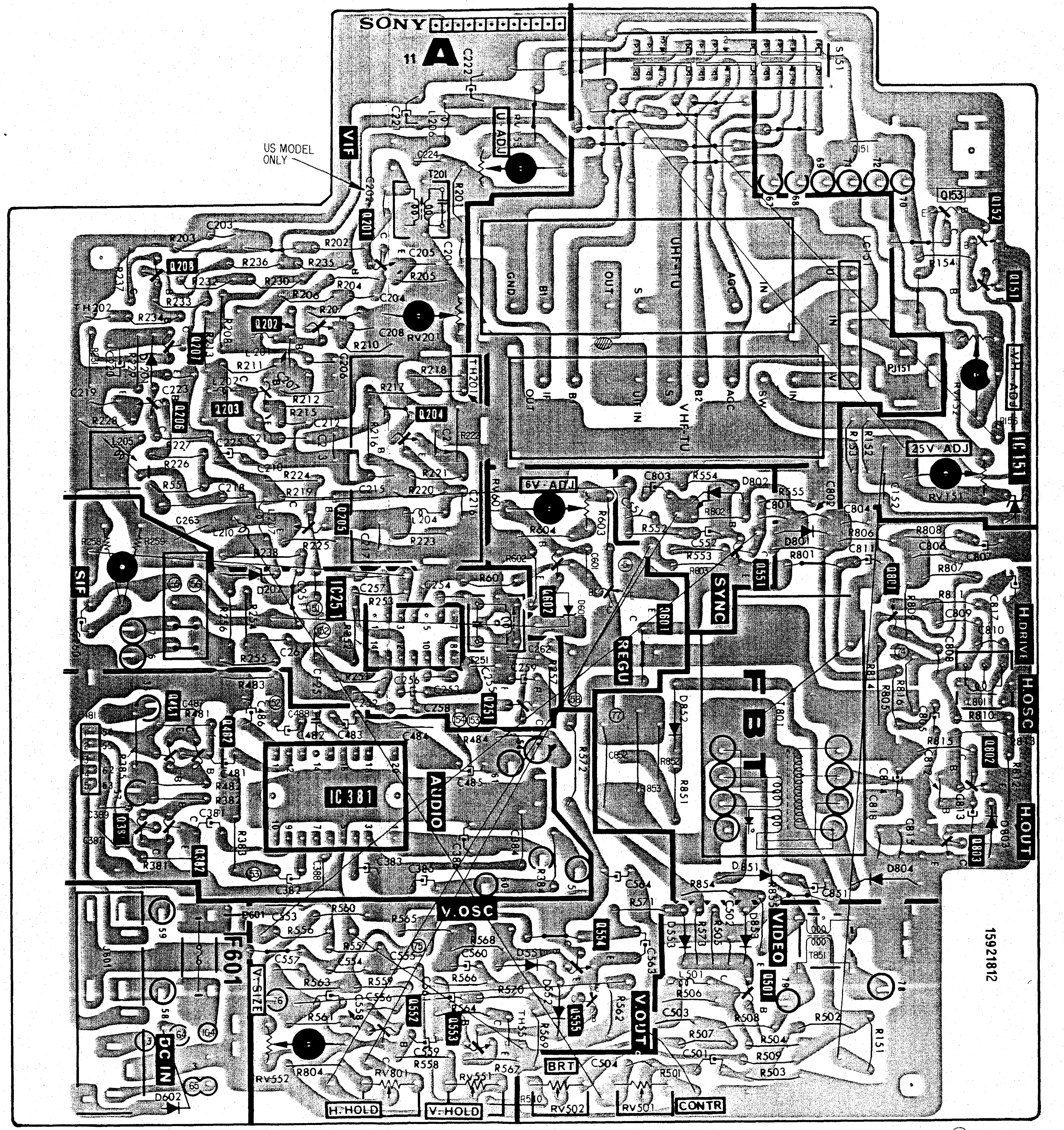
TV, VIF, SIF, AUDIO, VIDEO, VER HOR DEFIECTION POWER **A** **A**

A B C D E F G

1 2 3 4 5

– A Board –

Q · IC	D	ADJ
		RV153
153		
201 152		
208		
151		
		RV201
202		
207	201	
		RV152
203·204		
206		
IC151	802	RV151
		RV601
205	801	
551 801	202	
IC251		
602	601	
601		
481 251		
482	852	
802		
IC381		
	803	
381 382		
803	851·804	
554	553·853	
	551	
501		
552	552	
555		
553		
		RV552
	602	
Q, IC	D	ADJ

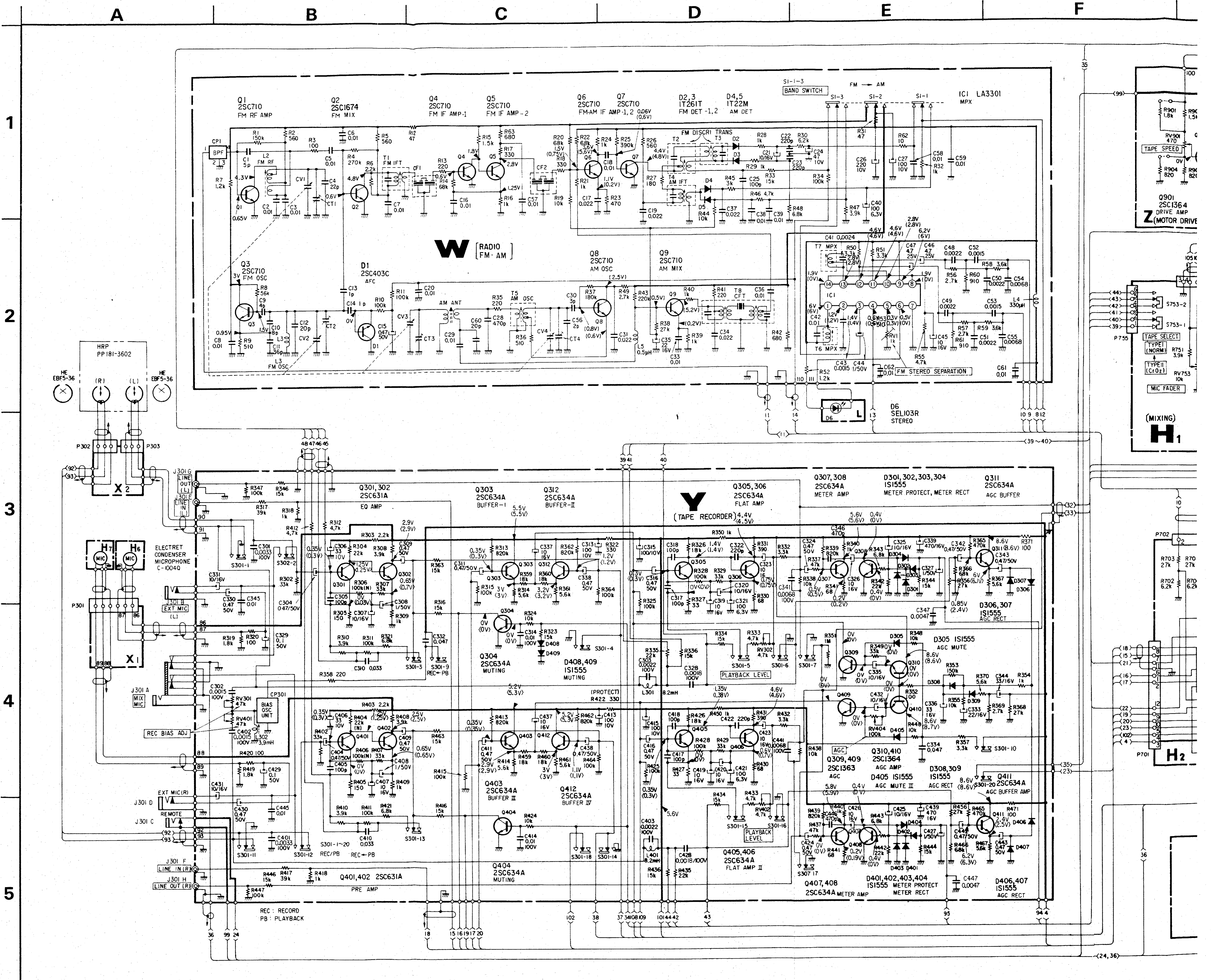

SONY
A
US MODEL ONLY
VIF
U-ADJ
UHF-TU
VHF-TU
VH-ADJ
25V ADJ
6V-ADJ
SIF
SYNC
REGU
FBT
AUDIO
IC381
H.DRIVE
H.OSC
H.OUT
V.OSC
VIDEO
V.OUT
V-SIZE
DC IN
F601
H.HOLD
V.HOLD
BRT
CONTR
1-592-181-2

4-4. SCHEMATIC DIAGRAM

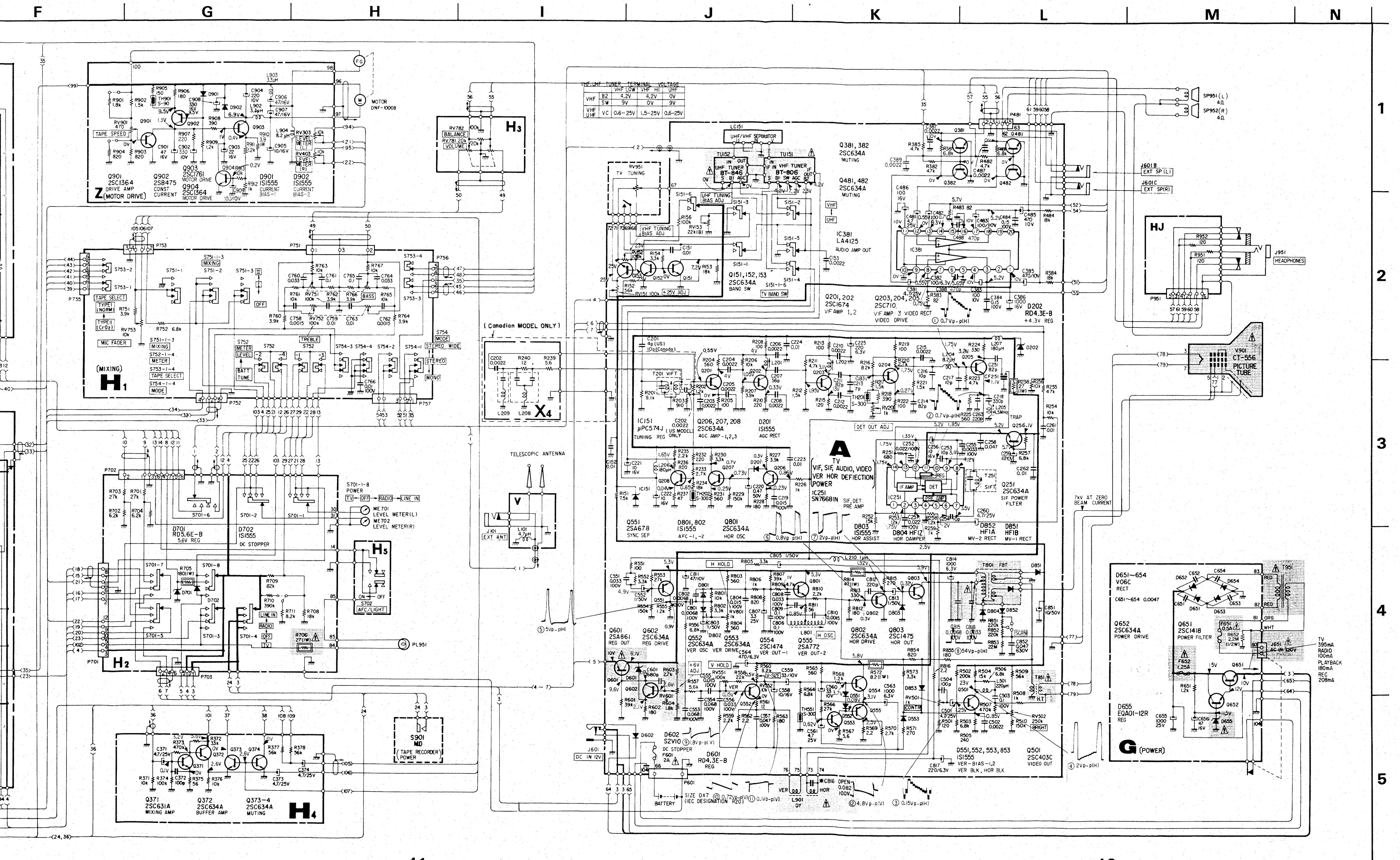
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. pF : $\mu\mu$F, elect : electrolytic
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- ⁕ : selected to yield optimum performance.
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- ━━ : B+ bus.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltages in W board are taken under detuned contitions.
  no mark : FM
  ( ) : AM
- Voltages in Y board are taken under no-signal conditions in playback mode.
  < > : record mode
- Voltages in A board are taken under tuned conditions with CONTR and BRIGHT controls set for best picture.
  no mark : CCIR
- Voltage variations may be noted due to normal production tolerances.



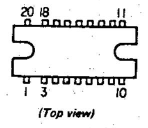
A
B
C
D
E
F
1
2
3
4
5
W [RADIO FM · AM]
Y (TAPE RECORDER)
Q1 2SC710 FM RF AMP
Q2 2SC1674 FM MIX
Q4 2SC710 FM IF AMP-1
Q5 2SC710 FM IF AMP-2
Q6 2SC710
Q7 2SC710 FM·AM IF AMP-1,2
D2,3 1T261T FM DET-1,2
D4,5 1T22M AM DET
S1-1-3 BAND SWITCH
FM ← AM
IC1 LA3301 MPX
FM DISCRI TRANS
Q3 2SC710 FM OSC
D1 2SC403C AFC
Q8 2SC710 AM OSC
Q9 2SC710 AM MIX
AM ANT
FM STEREO SEPARATION
D6 SEL103R STEREO
HRP PP181-3602
HE EBF5-36
X2
X1
H7
H6
ELECTRET CONDENSER MICROPHONE C-1004Q
REC BIAS ADJ
BIAS OSC UNIT
Q301,302 2SC631A EQ AMP
Q303 2SC634A BUFFER-I
Q312 2SC634A BUFFER-II
Q305,306 2SC634A FLAT AMP
Q307,308 2SC634A METER AMP
Q301,302,303,304 1S1555 METER PROTECT, METER RECT
Q311 2SC634A AGC BUFFER
Q304 2SC634A MUTING
D408,409 1S1555 MUTING
PLAYBACK LEVEL
D305 1S1555 AGC MUTE
D306,307 1S1555 AGC RECT
Q309,409 2SC1363 AGC
Q310,410 2SC1364 AGC AMP
D405 1S1555 AGC MUTE II
D308,309 1S1555 AGC RECT
Q411 2SC634A AGC BUFFER AMP
Q401,402 2SC631A PRE AMP
Q403 2SC634A BUFFER III
Q412 2SC634A BUFFER IV
Q404 2SC634A MUTING
Q405,406 2SC634A FLAT AMP II
Q407,408 2SC634A METER AMP
D401,402,403,404 1S1555 METER PROTECT METER RECT
D406,407 1S1555 AGC RECT
REC : RECORD
PB : PLAYBACK
J301 D EXT MIC(R)
J301 C REMOTE
J301 F LINE IN (R)
J301 H LINE OUT (R)
J301 G LINE OUT (L)
J301 E LINE IN (L)
J301 B EXT MIC (L)
J301 A MIX MIC
Q901 2SC1364 DRIVE AMP
Z (MOTOR DRIVE)
TAPE SPEED
TAPE SELECT
MIC FADER
(MIXING) H1
H2


F
G
H
I
J
K
L
M
N
1
2
3
4
5
Z (MOTOR DRIVE)
Q901 2SC1364 DRIVE AMP
Q902 2SB475 CONST CURRENT
Q903 2SC1761 MOTOR DRIVE
Q904 2SC1364 MOTOR DRIVE
D901 1S1555 CURRENT BIAS-1
D902 1S1555 CURRENT BIAS-2
TAPE SPEED
MOTOR DNF-1000B
LEVEL METER (L)
LEVEL METER (R)
H3
BALANCE
VOLUME
H1
(MIXING)
TAPE SELECT
TYPE I (NORM)
TYPE II (CrO2)
MIC FADER
MIXING
METER
TAPE SELECT
MODE
BASS
TREBLE
STEREO WIDE
STEREO
MONO
BATT
TUNE
H2
S701-1-8 POWER
TV
OFF
RADIO
LINE IN
ME701 LEVEL METER(L)
ME702 LEVEL METER(R)
D701 RD5.6E-B 5.6V REG
D702 1S1555 DC STOPPER
H5
S702 AFC/LIGHT
ON
OFF
PL951
H4
Q371 2SC631A MIXING AMP
Q372 2SC634A BUFFER AMP
Q373-4 2SC634A MUTING
S901 MD (TAPE RECORDER) POWER
(Canadian MODEL ONLY)
X4
TELESCOPIC ANTENNA
V
J101 EXT ANT
(5) 5Vp-p(H)
RV951 TV TUNING
UHF/VHF SEPARATOR
TU152 UHF TUNER BT-846
TU151 VHF TUNER BT-806
UHF TUNING BIAS ADJ
VHF TUNING BIAS ADJ
+25V ADJ
Q151, 152, 153 2SC634A BAND SW
TV BAND SW
VHF
UHF
Q381, 382 2SC634A MUTING
Q481, 482 2SC634A MUTING
IC381 LA4125 AUDIO AMP OUT
Q201, 202 2SC1674 VIF AMP 1, 2
Q203, 204, 205 2SC710 VIF AMP 3 VIDEO RECT VIDEO DRIVE
D202 RD4.3E-B +4.3V REG
(1) 0.7Vp-p(H)
(2) 0.7Vp-p(H)
J601B EXT SP (L)
J601C EXT SP (R)
SP951 (L) 4Ω
SP952 (R) 4Ω
HJ
J951 HEADPHONES
V901 CT-556 PICTURE TUBE
IC151 μPC574J TUNING REG
Q206, 207, 208 2SC634A AGC AMP-1, 2, 3
D201 1S1555 AGC RECT
DET OUT ADJ
A
TV
VIF, SIF, AUDIO, VIDEO
VER HOR DEFLECTION
POWER
IC251 SN76681N SIF DET PRE AMP
Q251 2SC634A SIF POWER FILTER
TRAP
Q551 2SA678 SYNC SEP
D801, 802 1S1555 AFC-1, -2
Q801 2SC634A HOR OSC
D803 1S1555 HOR ASSIST
D804 HF1Z HOR DAMPER
D852 HF1A MV-2 RECT
D851 HF1B MV-1 RECT
7kV AT ZERO BEAM CURRENT
H HOLD
V HOLD
H OSC
V-SIZE
Q601 2SA861 REG OUT
Q602 2SC634A REG DRIVE
Q552 2SC634A VER OSC
Q553 2SC634A VER DRIVE
Q554 2SC1474 VER OUT-1
Q555 2SA772 VER OUT-2
Q802 2SC634A HOR DRIVE
Q803 2SC1475 HOR OUT
T801 FBT
SCRN
H.T
CONTR
BRIGHT
D602 S2V10 DC STOPPER
D601 RD4.3E-B REG
J601 DC IN 12V
BATTERY
P601
SIZE DX7 (IEC DESIGNATION R20)
(10) 0.72Vp-p(V)
(11) 0.1Vp-p(V)
(12) 4.8Vp-p(V)
(3) 0.15Vp-p(H)
L901 DY
VER
HOR
OPEN
D551, 552, 553, 853 1S1555 VER-BIAS-1, 2 VER BLK, HOR BLK
Q501 2SC403C VIDEO OUT
(4) 2Vp-p(H)
(6) 7Vp-p(H)
(7) 2Vp-p(H)
(8) 54Vp-p(H)
(5) 0.8Vp-p(H)
D651~654 V06C RECT
Q652 2SC634A POWER DRIVE
Q651 2SC1418 POWER FILTER
D655 EQA01-12R REG
G (POWER)
T951
J651 AC IN 120V
TV 395mA
RADIO 100mA
PLAYBACK 180mA
REC 208mA
RED
ORG
WHT

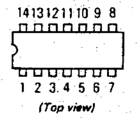
VHF.UHF TUNER TERMINAL VOLTAGE

		VHF LOW	VHF HI	UHF
VHF	B2	4.2V	4.2V	0V
	SW	9V	0V	9V
VHF UHF	VC	0.6-25V	1.5-25V	0.6-25V

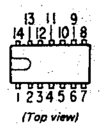
LA4125


20 18 11
1 3 10
(Top view)

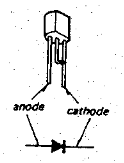
LA3301


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

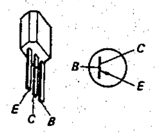
SN7668N


13 11 9
14 12 10 8
1 2 3 4 5 6 7
(Top view)

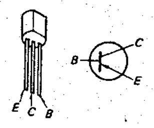
µPC574J


anode
cathode

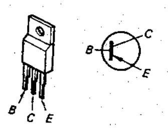
2SA678
2SA1027R



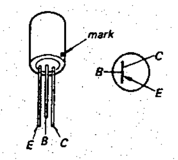
2SA772-23



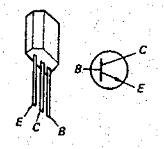
2SA861



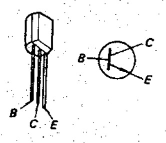
2SB475
2SB324


mark
B
C
E
E B C

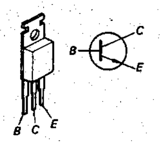
2SC403C
2SC631A
2SC634A



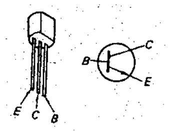
2SC710-13
2SC710-14
2SC710-15



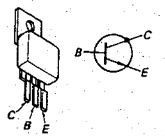
2SC1061



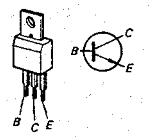
2SC1364
2SC1474
2SC1475
2SC1675



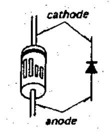
2SC1418



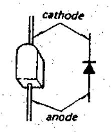
2SC1761



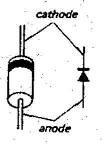
EQB01-12Z
EQA01-12R


cathode
anode

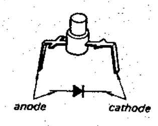
HF1A
HF1B
HF1Z
HF1C


cathode
anode

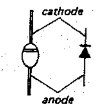
S2V10


cathode
anode

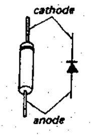
SEL103R


anode
cathode

V06C
V09C
U05G
GH3F


cathode
anode

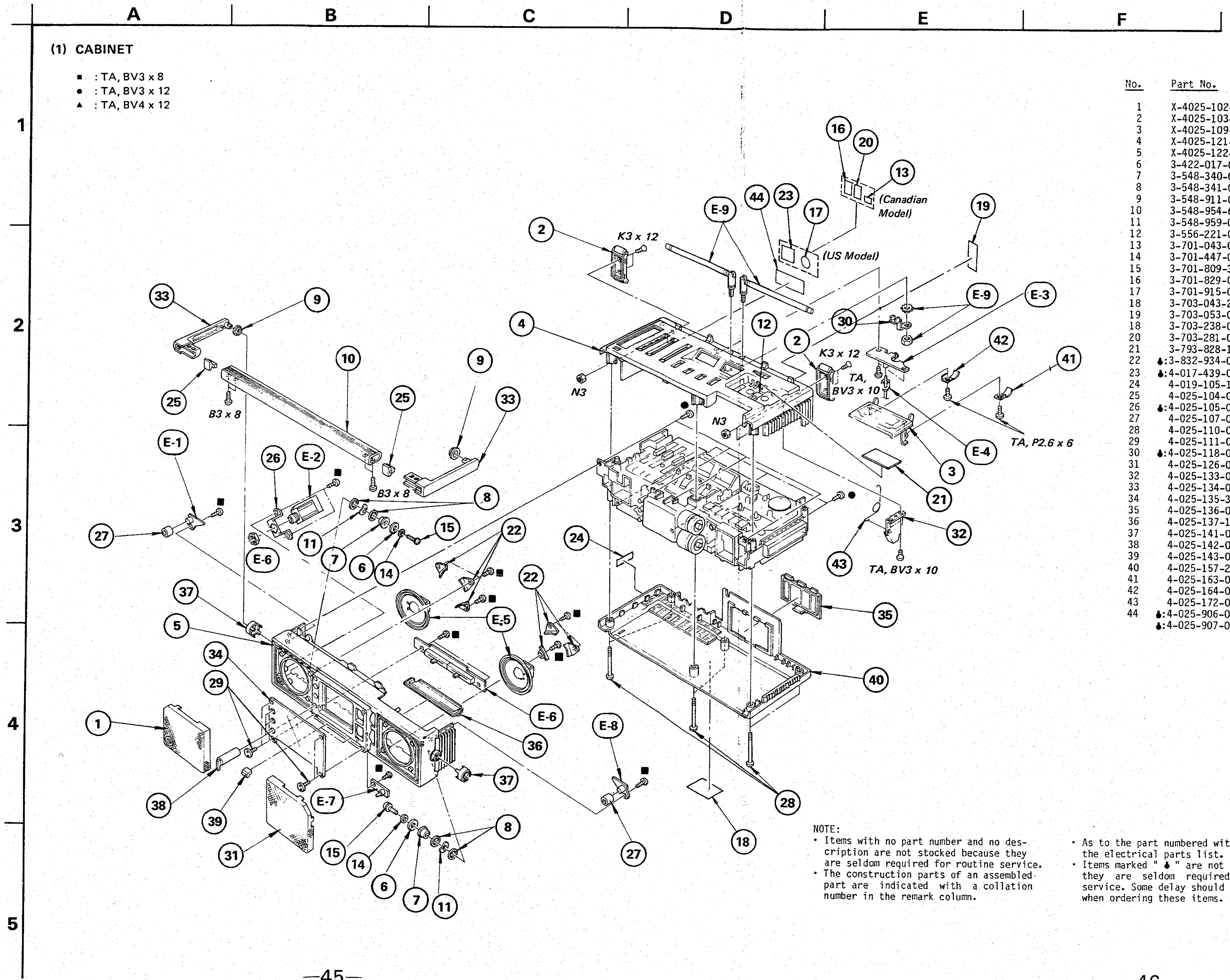
1T261
1T22A
1T22AM
RD4.3E
RD5.6E-B
RD5.6E-B2Z
1S1555


cathode
anode

SECTION 5
EXPLODED VIEWS

(1) CABINET

■ : TA, BV3 x 8
● : TA, BV3 x 12
▲ : TA, BV4 x 12


A
B
C
D
E
F
1
2
3
4
5
K3 x 12
(Canadian Model)
(US Model)
B3 x 8
B3 x 8
N3
N3
K3 x 12
TA, BV3 x 10
TA, P2.6 x 6
TA, BV3 x 10
E-1
E-2
E-3
E-4
E-5
E-6
E-6
E-7
E-8
E-9
E-9
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44

No.	Part No.	Description	Remark
1	X-4025-102-0	NET (LEFT) ASSY, SPEAKER	
2	X-4025-103-0	FOOT ASSY	
3	X-4025-109-0	HOLDER ASSY, CASSETTE	41,42
4	X-4025-121-1	CABINET ASSY, UPPER	
5	X-4025-122-0	MASK ASSY, FRONT	1,31
6	3-422-017-00	PLATE, SLIDE	
7	3-548-340-00	COLLAR, HANDLE	
8	3-548-341-00	WASHER	
9	3-548-911-00	COLLAR (A), HANDLE	
10	3-548-954-61	HANDLE, CARRYING	
11	3-548-959-00	WASHER	
12	3-556-221-00	PLATE, ORNAMENTAL	
13	3-701-043-00	LABEL, CSA VIDEO (CANADIAN MODEL)	
14	3-701-447-01	WASHER	
15	3-701-809-31	SCREW, TERMINAL	
16	3-701-829-01	LABEL, X-RAY (CANADIAN MODEL)	
17	3-701-915-01	LABEL, UL (US MODEL)	
18	3-703-043-21	LABEL, CAUTION; MAIN (CANADIAN MODEL)	
19	3-703-053-00	LABEL, CAUTION; SCREW (CANADIAN MODEL)	
18	3-703-238-00	LABEL, MAIN CAUTION (US MODEL)	
20	3-703-281-00	LABEL, DOC (A) (CANADIAN MODEL)	
21	3-793-828-11	QUESTIONNAIRE	
22	♠:3-832-934-01	HOLDER, SPEAKER	
23	♠:4-017-439-00	LABEL, X-RAY (US MODEL)	
24	4-019-105-11	LABEL, POWER; DC IN 12V	
25	4-025-104-00	GUARD, HANDLE	
26	♠:4-025-105-00	BRACKET, HEADPHONE JACK	
27	4-025-107-00	HOLDER, MICROPHONE	
28	4-025-110-00	SCREW, TA. +P4X80	
29	4-025-111-00	SCREW, PROTECTOR	
30	♠:4-025-118-00	LEAD, ANTENNA	
31	4-025-126-00	NET (RIGHT), SPEAKER	
32	4-025-133-00	HOLDER, SPRING	
33	4-025-134-00	PLATE, SIDE, HANDLE	
34	4-025-135-31	PROTECTOR	
35	4-025-136-00	LID, BATTERY CASE	
36	4-025-137-11	COVER	
37	4-025-141-00	RING, ORNAMENTAL; HANDLE	
38	4-025-142-00	KNOB, FUNCTION	
39	4-025-143-00	KNOB, CONTROL	
40	4-025-157-21	CABINET, LOWER	
41	4-025-163-00	SPRING (RIGHT)	
42	4-025-164-00	SPRING (LEFT)	
43	4-025-172-00	SPRING	
44	♠:4-025-906-00	LABEL, MODEL NUMBER (US MODEL)	
	♠:4-025-907-00	LABEL, MODEL NUMBER (CANADIAN MODEL)	

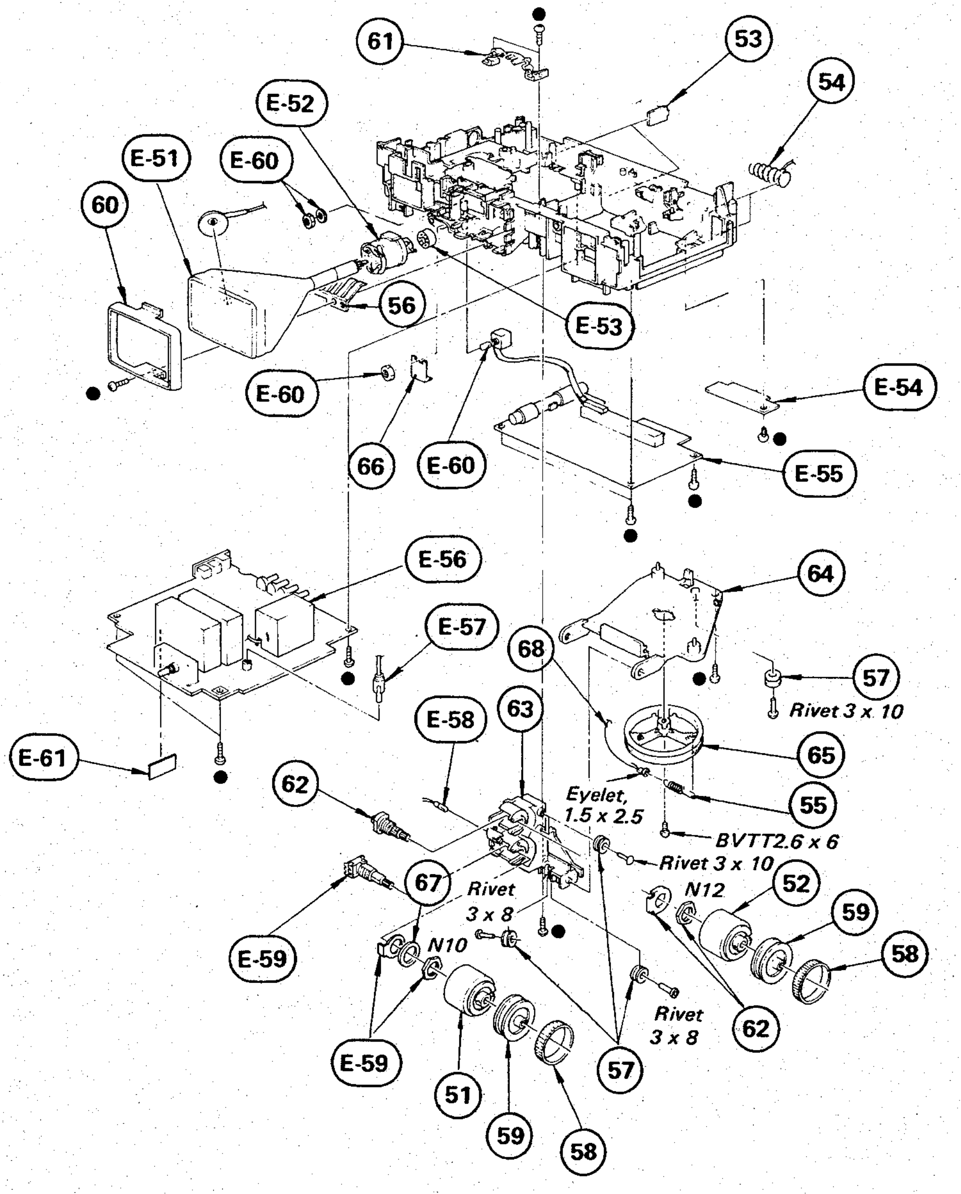
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(2) PICTURE TUBE

● : TA, BV3 x 12


61
53
54
E-52
E-51
E-60
60
56
E-53
E-60
E-54
66
E-60
E-55
E-56
64
E-57
68
57
Rivet 3 x 10
E-58
63
E-61
65
62
Eyelet, 1.5 x 2.5
55
BVTT2.6 x 6
Rivet 3 x 10
67
Rivet 3 x 8
N12
52
59
E-59
N10
58
Rivet 3 x 8
62
E-59
57
51
59
58

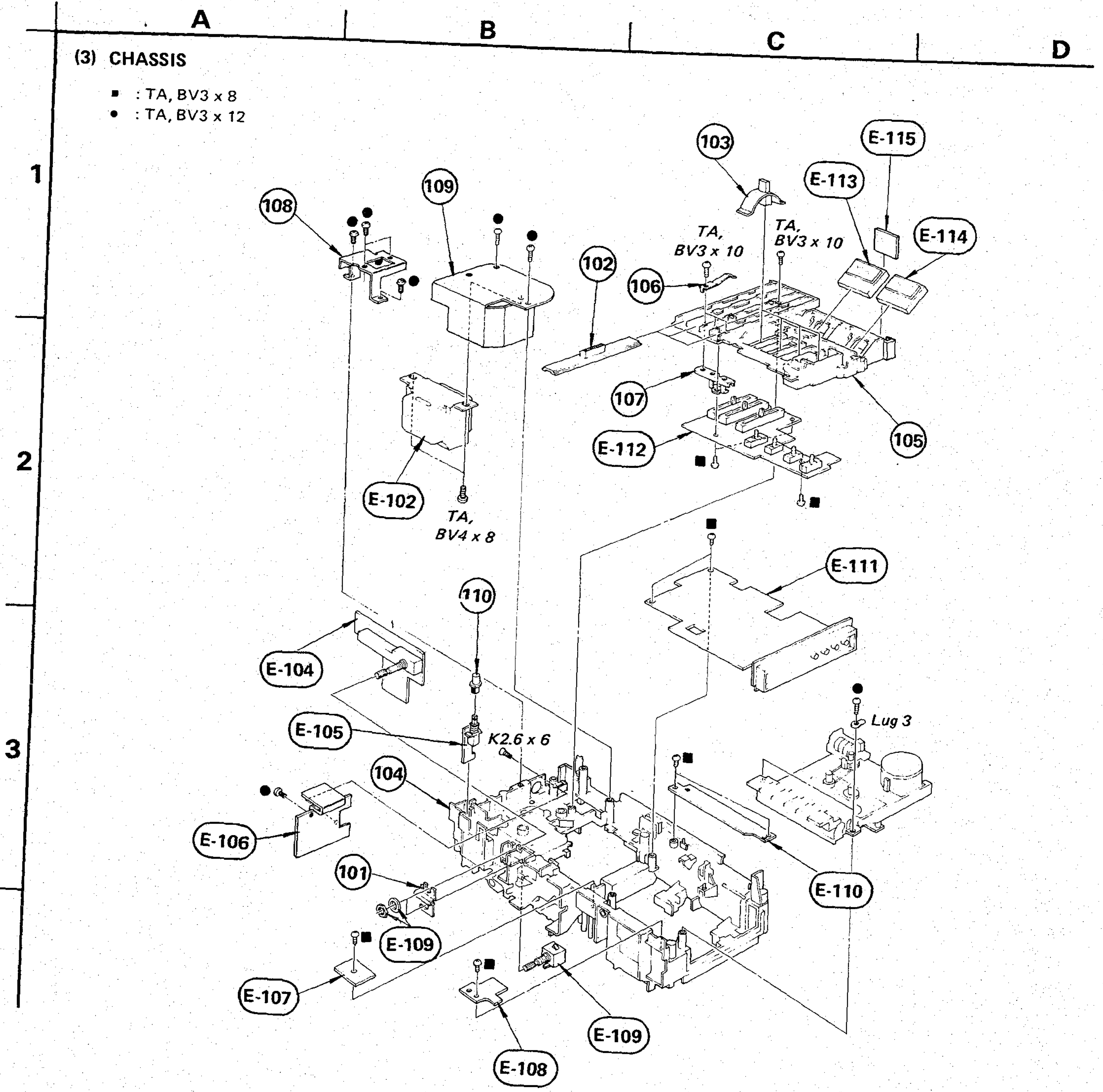
No.	Part No.	Description	Remark
51	X-4025-119-0	DRUM ASSY, TV INDICATION	
52	X-4025-120-0	DRUM ASSY, RADIO INDICATION	
53	3-538-133-00	PLATE, BATTERY CONTACT	
54	3-701-850-00	SPRING	
55	3-844-675-00	SPRING	
56	4-025-101-00	SPRING	
57	♠:4-025-122-00	PULLEY, 8MM DIA.	
58	4-025-123-00	RING, TUNING KNOB	
59	4-025-128-00	KNOB, TUNING	
60	♠:4-025-129-00	HOLDER (FRONT), PICTURE TUBE	
61	♠:4-025-130-00	HOLDER (REAR), PICTURE TUBE	
62	4-025-147-00	SHAFT, VERNIER	
63	♠:4-025-148-00	SHAFT (A), RADIO	
64	♠:4-025-149-00	SHAFT (B), RADIO	
65	4-025-150-00	DRUM, DIAL	
66	♠:4-025-166-00	COVER, SWITCH	
67	♠:4-025-184-00	WASHER, 10MM DIA.	
68	9-911-825-32	DIAL CORD, 0.3MM DIA.	

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(3) CHASSIS

■ : TA, BV3 x 8
● : TA, BV3 x 12


A
B
C
D
1
2
3
103
E-115
E-113
E-114
109
108
TA,
BV3 x 10
TA,
BV3 x 10
102
106
107
E-112
105
E-102
TA,
BV4 x 8
E-111
110
E-104
E-105
K2.6 x 6
Lug 3
104
E-106
101
E-110
E-109
E-107
E-108
E-109

No.	Part No.	Description	Remark
101	4-025-124-00	PIECE, CONNECTION	
102	4-025-140-00	KNOB, SLIDE	
103	4-025-152-00	KNOB, SELECTOR	
104	♠:4-025-155-00	CHASSIS, MAIN	
105	♠:4-025-159-00	CHASSIS, CONTROL	
106	♠:4-025-183-00	PLATE (A), GROUND; SLIDE KNOB	
107	♠:4-025-185-00	PLATE (B), GROUND; SLIDE KNOB	
108	♠:4-025-189-00	BRACKET, SWITCH	
109	♠:4-025-193-00	BRACKET, PT	
110	4-333-704-00	BUTTON, CONTROL	

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

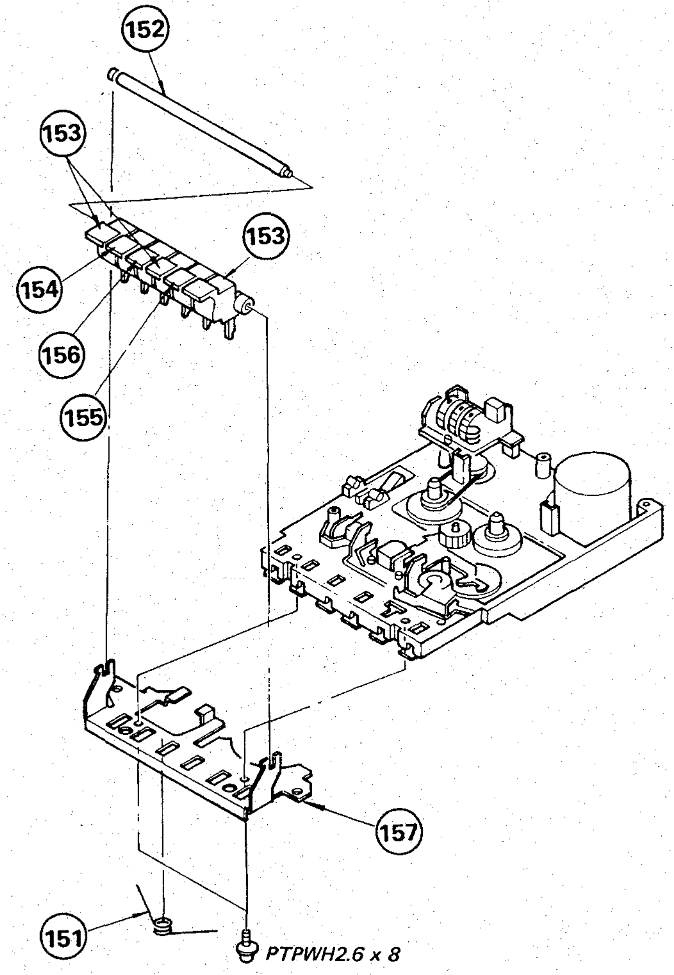
A B C D

(4) MECHANICAL BUTTON

1

2

3



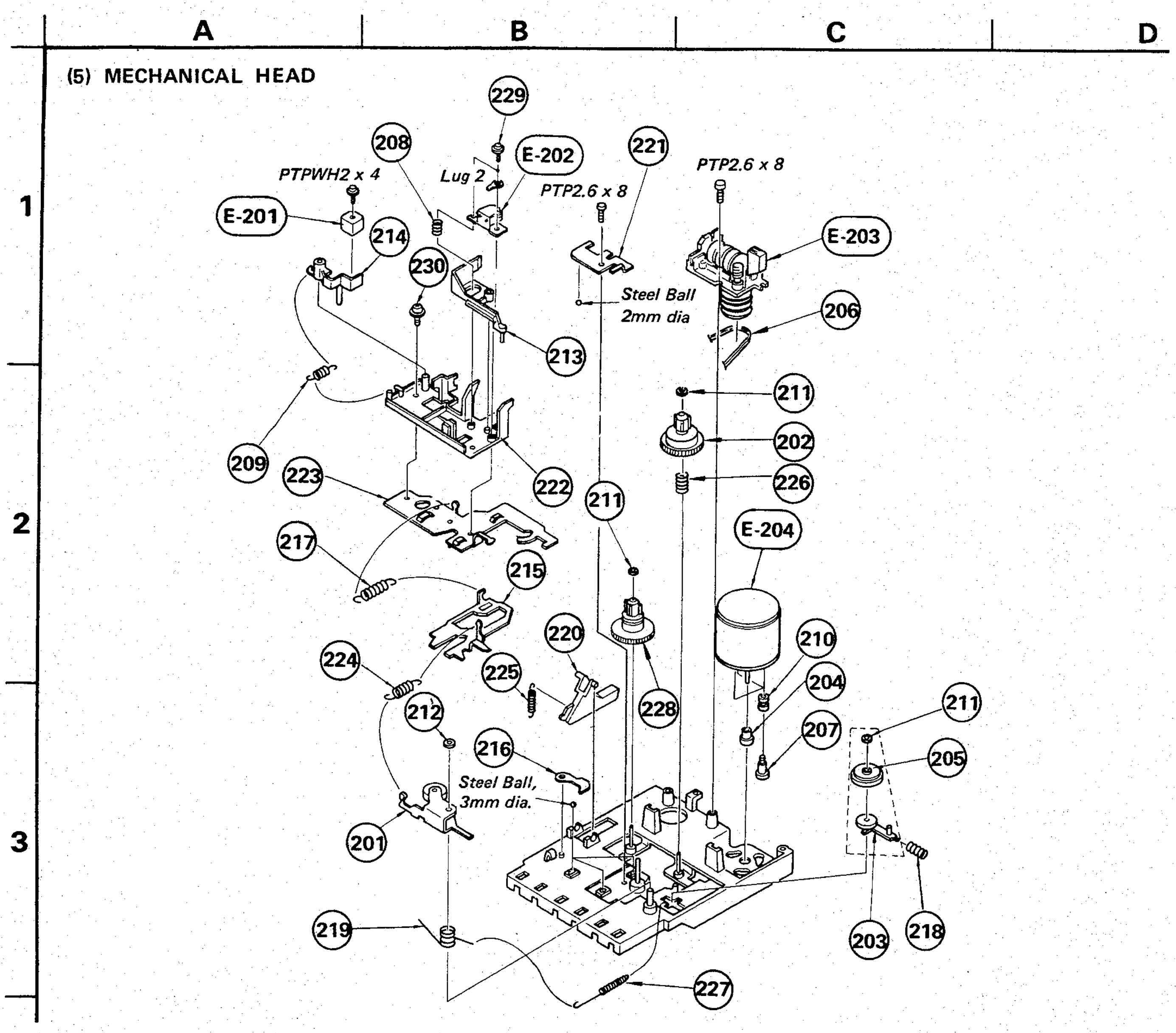
No.	Part No.	Description	Remark
151	3-561-844-00	SPRING	
152	♠:3-561-875-00	SHAFT, BUTTON	
153	3-561-895-00	BUTTON, ◂◂ REVIEW, CUE ▸▸ PAUSE	
154	3-561-896-01	BUTTON, ■ EJECT	
155	3-561-896-11	BUTTON, REC	
156	3-561-896-21	BUTTON, ▸ FWD	
157	♠:3-564-314-11	RETAINER (S), LEVER	

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(5) MECHANICAL HEAD

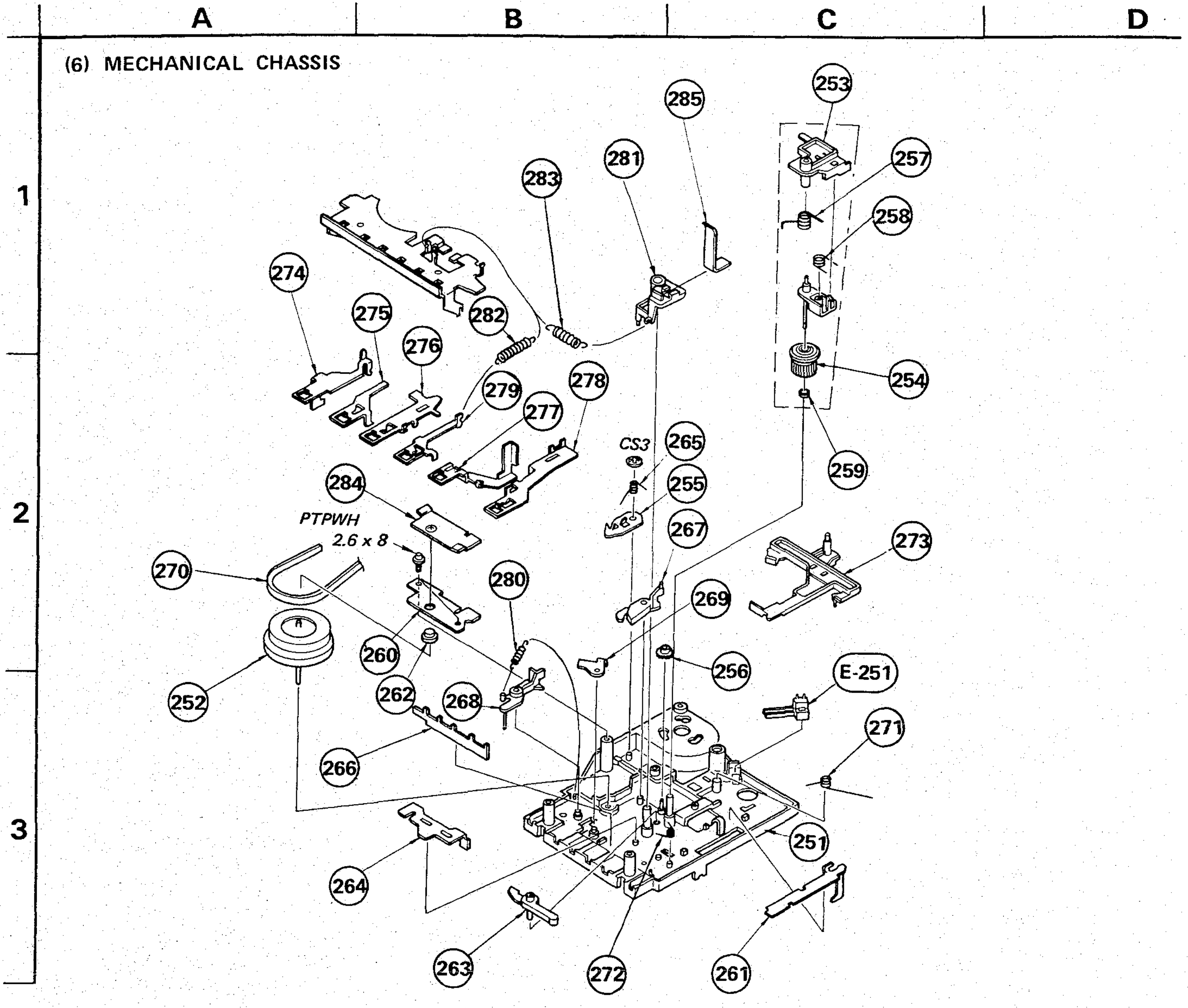

A
B
C
D
1
2
3
229
208
E-202
221
PTPWH2 x 4
Lug 2
PTP2.6 x 8
PTP2.6 x 8
E-201
214
E-203
230
Steel Ball 2mm dia
206
213
211
202
209
223
222
211
226
E-204
217
215
220
210
224
225
228
204
212
211
207
216
205
Steel Ball, 3mm dia.
201
219
203
218
227

No.	Part No.	Description	Remark
201	A-3110-004-A	PINCH ROLLER ASSY	
202	A-3130-008-A	REEL TABLE ASSY, TAKE-UP	
203	♠:A-3136-014-A	IDLER COMPLETE ASSY, FORWARD	205,211
204	X-3558-616-1	PULLEY, MOTOR	
	X-3558-616-2	PULLEY, MOTOR	
	X-3558-616-3	PULLEY, MOTOR	
	X-3558-616-4	PULLEY, MOTOR	
	X-3558-616-5	PULLEY, MOTOR	
205	X-3561-801-0	IDLER ASSY, FORWARD	
206	3-480-136-00	BELT (B)	
207	3-533-254-11	SCREW, MOTOR	
208	3-539-237-00	SPRING	
209	3-539-259-00	SPRING	
210	3-548-886-00	CUSHION (B), MOTOR	
211	3-558-708-01	WASHER, STOPPER	
212	3-558-708-21	WASHER, STOPPER	
213	3-561-802-00	TENSION PULLEY	
214	3-561-817-00	LEVER, ERASE HEAD	
215	♠:3-561-824-00	LEVER, RECORD/PLAYBACK	
216	♠:3-561-825-00	LEVER, ERASE	
217	3-561-841-00	SPRING	
218	3-561-843-00	SPRING	
219	3-561-846-00	SPRING	
220	3-561-847-00	LEVER, EJECT	
221	3-561-852-00	SPRING	
222	3-561-858-00	BRACKET, HEAD	
223	3-561-859-00	BASE (L), HEAD	
224	3-561-883-00	SPRING	
225	3-561-884-00	SPRING	
226	3-561-886-00	SPRING	
227	3-561-887-00	SPRING	
228	3-561-893-00	REEL TABLE (S), SUPPLY	
229	3-701-465-00	SCREW WITH WASHER	
230	3-701-466-00	SCREW, SELF-TAPPING; WITH WASHER	

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(6) MECHANICAL CHASSIS



No.	Part No.	Description	Remark
251	●:A-3102-017-A	CHASSIS SUB ASSY, MECHANISM	
252	A-3109-009-A	FLYWHEEL ASSY	
253	A-3136-015-A	IDLER COMPLETE ASSY, FAST FORWARD/REWIND	254,257 258,259
254	X-3558-607-0	IDLER ASSY, FAST FORWARD/REWIND	
255	3-558-612-00	PLATE, LOCK; PAUSE	
256	3-558-620-00	GEAR, REWIND	
257	3-558-651-00	SPRING	
258	3-558-652-00	SPRING	
259	3-558-708-01	WASHER, STOPPER	
260	3-561-801-00	RETAINER, THRUST	
261	●:3-561-805-00	LEVER, RECORDING PREVENTION	
262	3-561-806-00	RETAINER, THRUST	
263	3-561-818-00	LEVER, REVIEW	
264	●:3-561-831-00	LEVER (B), RECORD	
265	3-561-832-00	SPRING	
266	●:3-561-833-00	PLATE, LOCK; BUTTON	
267	3-561-839-00	LEVER, FAST FORWARD	
268	3-561-845-00	LEVER, RELEASE	
269	●:3-561-849-00	LEVER (A), RECORD	
270	3-561-850-00	BELT, CAPSTAN	
271	3-561-851-00	SPRING	
272	3-561-853-00	SPRING	
273	3-561-857-00	LEVER, BRAKE	
274	●:3-561-869-00	LEVER (C), PAUSE BUTTON	
275	●:3-561-870-00	LEVER (C), REC BUTTON	
276	●:3-561-871-00	LEVER (C), FF BUTTON	
277	●:3-561-872-00	LEVER (C), STOP BUTTON	
278	●:3-561-873-00	LEVER (C), REW BUTTON	
279	●:3-561-874-00	LEVER (C), FWD BUTTON	
280	3-561-884-00	SPRING	
281	●:3-561-894-00	LEVER (E), RECORD	
282	3-561-897-00	SPRING	
283	3-561-898-00	SPRING	
284	●:4-025-119-00	INSULATOR, REC	
285	4-025-179-00	SPRING	

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " ● " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

V **H6** **H7** **H3** **HJ** **L** **G** **H4**

SECTION 6
ELECTRICAL PARTS LIST

Ref.No.	Part No.	Description	Remark
	♠:1-601-032-00	V BOARD	E-3
	♠:4-025-118-00	LEAD, ANTENNA	
		JACK	
J101	1-507-569-00	JACK, EXT ANT	
		COIL	
L101	1-407-840-11	COIL, CORE 4.7UH	
		PLUG	
PJ101	♠:1-526-575-00	SOCKET, PLUG	

* * *

	♠:1-601-045-00	H6 BOARD	E-1
		MICROPHONE	
MIC	8-814-198-91	MICROPHONE (C-1004Q)	

* * *

	♠:1-601-046-00	H7 BOARD	E-8
		MICROPHONE	
MIC	8-814-198-91	MICROPHONE (C-1004Q)	

* * *

	♠:1-601-042-00	H3 BOARD	E-6
		VARIABLE RESISTOR	
RV781	1-226-630-00	RES, VAR, SLIDE 20K-A/20K-A	
RV782	1-226-634-00	RES, VAR, SLIDE 100K	

* * *

	♠:1-601-033-00	HJ BOARD	E-2
		JACK	
J951	1-507-648-00	JACK	
		CONNECTOR	
P951	♠:1-508-845-00	PIN, CONNECTOR 6P	
		RESISTOR	
R951	1-246-451-00	CARBON 120 1/4 W 5%	
R952	1-246-451-00	CARBON 120 1/4 W 5%	

* * *

	♠:1-601-034-00	L BOARD	E-7

Ref.No.	Part No.	Description	Remark
		DIODE	
D6	8-719-301-03	DIODE SEL103R	

* * *

	1-602-622-00	G BOARD	E-106
	♠:4-025-197-00	HEAT SINK	
		CAPACITOR	
C651	1-101-003-00	CERAMIC 0.0047MF 50V	
C652	1-101-003-00	CERAMIC 0.0047MF 50V	
C653	1-101-003-00	CERAMIC 0.0047MF 50V	
C654	1-101-003-00	CERAMIC 0.0047MF 50V	
C655	1-123-337-00	ELECT 1000MF 20% 25V	
C656	1-123-319-00	ELECT 47MF 20% 16V	
		DIODE	
D651	=>8-719-900-93	DIODE V09C	
D652	=>8-719-900-93	DIODE V09C	
D653	=>8-719-900-93	DIODE V09C	
D654	=>8-719-900-93	DIODE V09C	
D655	⚠8-719-936-12	DIODE EQA01-12R	
		FUSE	
F651	⚠1-532-262-XX	FUSE 0.5A	
F652	⚠1-532-402-XX	FUSE 1.25A	
		CONNECTOR	
J651	⚠1-561-052-31	2P CONNECTOR, POWER	
		TRANSISTOR	
Q651	=>8-729-316-12	TRANSISTOR 2SC1061	
Q652	=>8-729-663-47	TRANSISTOR 2SC1364	
		RESISTOR	
R651	1-246-475-00	CARBON 1.2K 1/4 W 5%	
R652	1-202-723-00	SOLID 2.2M 1/2 W 10%	

* * *

	♠:1-601-043-00	H4 BOARD	E-54
		CAPACITOR	
C371	1-123-328-00	ELECT 4.7MF 20% 25V	
C372	1-102-973-00	CERAMIC 100PF 5% 50V	
C373	1-123-328-00	ELECT 4.7MF 20% 25V	
C374	1-123-328-00	ELECT 4.7MF 20% 25V	
		TRANSISTOR	
Q371	=>8-729-665-47	TRANSISTOR 2SC1362	
Q372	=>8-729-663-47	TRANSISTOR 2SC1364	
Q373	=>8-729-663-47	TRANSISTOR 2SC1364	

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

Ref.No.	Part No.	Description	Remark
Q374	=>8-729-663-47	TRANSISTOR 2SC1364	
		RESISTOR	
R371	1-246-497-00	CARBON 10K 1/4 W 5%	
R372	1-246-509-00	CARBON 33K 1/4 W 5%	
R373	1-246-537-00	CARBON 470K 1/4 W 5%	
R374	1-246-521-00	CARBON 100K 1/4 W 5%	
R375	1-246-443-00	CARBON 56 1/4 W 5%	
R376	1-246-497-00	CARBON 10K 1/4 W 5%	
R377	1-246-515-00	CARBON 56K 1/4 W 5%	
R378	1-246-515-00	CARBON 56K 1/4 W 5%	

****

Ref.No.	Part No.	Description	Remark
	♠:A-1266-008-A	Y BOARD, COMPLETE	E-111
	1-507-662-00	JACK, 8P	
	♠:3-538-856-01	PIN, LEAD	
		CAPACITOR	
C301	1-108-620-00	MYLAR 0.0033MF 10% 100V	
C302	1-108-616-11	MYLAR 0.0015MF 10% 100V	
C303	1-108-618-11	MYLAR 0.0022MF 10% 100V	
C304	1-123-351-00	ELECT 0.47MF 20% 50V	
C305	1-102-973-00	CERAMIC 100PF 5% 50V	
C306	1-123-305-00	ELECT 33MF 20% 10V	
C307	1-123-316-00	ELECT 10MF 20% 16V	
C308	1-123-352-00	ELECT 1MF 20% 50V	
C309	1-123-351-00	ELECT 0.47MF 20% 50V	
C310	1-108-810-11	MYLAR 0.033MF 5% 50V	
C311	1-123-351-00	ELECT 0.47MF 20% 50V	
C313	1-123-307-00	ELECT 100MF 20% 10V	
C314	1-108-626-11	MYLAR 0.01MF 10% 100V	
C315	1-123-307-00	ELECT 100MF 20% 10V	
C316	1-123-351-00	ELECT 0.47MF 20% 50V	
C317	1-102-973-00	CERAMIC 100PF 5% 50V	
C318	1-102-973-00	CERAMIC 100PF 5% 50V	
C319	1-123-316-00	ELECT 10MF 20% 16V	
C320	1-123-316-00	ELECT 10MF 20% 16V	
C321	1-123-295-00	ELECT 100MF 20% 6.3V	
C322	1-102-978-00	CERAMIC 220PF 5% 50V	
C323	1-123-316-00	ELECT 10MF 20% 16V	
C324	1-123-351-00	ELECT 0.47MF 20% 50V	
C325	1-123-316-00	ELECT 10MF 20% 16V	
C326	1-123-316-00	ELECT 10MF 20% 16V	
C327	1-123-352-00	ELECT 1MF 20% 50V	
C328	1-108-617-11	MYLAR 0.0018MF 10% 100V	
C329	1-123-586-00	ELECT 0.1MF 20% 50V	
C330	1-123-351-00	ELECT 0.47MF 20% 50V	
C331	1-123-316-00	ELECT 10MF 20% 16V	
C332	1-108-845-00	MYLAR 0.047MF 10% 50V	
C333	1-123-317-00	ELECT 22MF 20% 16V	
C334	1-108-845-00	MYLAR 0.047MF 10% 50V	
C335	1-123-316-00	ELECT 10MF 20% 16V	
C336	1-123-318-00	ELECT 33MF 20% 16V	

Ref.No.	Part No.	Description	Remark
C337	1-123-316-00	ELECT 10MF 20% 16V	
C338	1-123-351-00	ELECT 0.47MF 20% 50V	
C339	1-123-323-00	ELECT 470MF 20% 16V	
C341	1-108-624-00	MYLAR 0.0068MF 10% 100V	
C342	1-123-351-00	ELECT 0.47MF 20% 50V	
C343	1-123-351-00	ELECT 0.47MF 20% 50V	
C344	1-123-318-00	ELECT 33MF 20% 16V	
C345	1-161-379-00	CERAMIC 10000PF 20% 25V	
C346	1-102-114-00	CERAMIC 470PF 10% 50V	
C347	1-101-003-00	CERAMIC 0.0047MF 50V	
C401	1-108-620-00	MYLAR 0.0033MF 10% 100V	
C402	1-108-616-11	MYLAR 0.0015MF 10% 100V	
C403	1-108-618-11	MYLAR 0.0022MF 10% 100V	
C404	1-123-351-00	ELECT 0.47MF 20% 50V	
C405	1-102-973-00	CERAMIC 100PF 5% 50V	
C406	1-123-305-00	ELECT 33MF 20% 10V	
C407	1-123-316-00	ELECT 10MF 20% 16V	
C408	1-123-352-00	ELECT 1MF 20% 50V	
C409	1-123-351-00	ELECT 0.47MF 20% 50V	
C410	1-108-810-11	MYLAR 0.033MF 5% 50V	
C411	1-123-351-00	ELECT 0.47MF 20% 50V	
C413	1-123-307-00	ELECT 100MF 20% 10V	
C414	1-108-626-11	MYLAR 0.01MF 10% 100V	
C415	1-123-307-00	ELECT 100MF 20% 10V	
C416	1-123-351-00	ELECT 0.47MF 20% 50V	
C417	1-102-973-00	CERAMIC 100PF 5% 50V	
C418	1-102-973-00	CERAMIC 100PF 5% 50V	
C419	1-123-316-00	ELECT 10MF 20% 16V	
C420	1-123-316-00	ELECT 10MF 20% 16V	
C421	1-123-295-00	ELECT 100MF 20% 6.3V	
C422	1-102-978-00	CERAMIC 220PF 5% 50V	
C423	1-123-316-00	ELECT 10MF 20% 16V	
C424	1-123-351-00	ELECT 0.47MF 20% 50V	
C425	1-123-316-00	ELECT 10MF 20% 16V	
C426	1-123-316-00	ELECT 10MF 20% 16V	
C427	1-123-352-00	ELECT 1MF 20% 50V	
C428	1-108-617-11	MYLAR 0.0018MF 10% 100V	
C429	1-123-586-00	ELECT 0.1MF 20% 50V	
C430	1-123-351-00	ELECT 0.47MF 20% 50V	
C431	1-123-316-00	ELECT 10MF 20% 16V	
C432	1-123-316-00	ELECT 10MF 20% 16V	
C437	1-123-316-00	ELECT 10MF 20% 16V	
C438	1-123-351-00	ELECT 0.47MF 20% 50V	
C439	1-123-323-00	ELECT 470MF 20% 16V	
C441	1-108-624-00	MYLAR 0.0068MF 10% 100V	
C442	1-123-351-00	ELECT 0.47MF 20% 50V	
C443	1-123-351-00	ELECT 0.47MF 20% 50V	
C445	1-161-379-00	CERAMIC 10000PF 20% 25V	
C446	1-102-114-00	CERAMIC 470PF 10% 50V	
C447	1-101-003-00	CERAMIC 0.0047MF 50V	
		OSCILATOR	
CP301	1-464-007-00	BIAS OSCILLATOR UNIT	

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

Ref.No.	Part No.	Description	Remark
		DIODE	
D301	8-719-815-55	DIODE 1S1555	
D302	8-719-815-55	DIODE 1S1555	
D303	8-719-815-55	DIODE 1S1555	
D304	8-719-815-55	DIODE 1S1555	
D305	8-719-815-55	DIODE 1S1555	
D306	8-719-815-55	DIODE 1S1555	
D307	8-719-815-55	DIODE 1S1555	
D308	8-719-815-55	DIODE 1S1555	
D309	8-719-815-55	DIODE 1S1555	
D401	8-719-815-55	DIODE 1S1555	
D402	8-719-815-55	DIODE 1S1555	
D403	8-719-815-55	DIODE 1S1555	
D404	8-719-815-55	DIODE 1S1555	
D405	8-719-815-55	DIODE 1S1555	
D406	8-719-815-55	DIODE 1S1555	
D407	8-719-815-55	DIODE 1S1555	
D408	8-719-815-55	DIODE 1S1555	
D409	8-719-815-55	DIODE 1S1555	
		COIL	
L301	1-407-503-00	MICRO INDUCTOR 8.2MMH	
L302	1-425-639-00	TRANSFORMER	
L401	1-407-503-00	MICRO INDUCTOR 8.2MMH	
		CONNECTOR	
MJ701	♠:1-555-394-00	CONNECTOR, 12P	
MJ752	♠:1-551-729-00	CONNECTOR, 4P	
MJ753	♠:1-551-729-00	CONNECTOR, 4P	
MJ755	♠:1-551-973-00	CONNECTOR, 6P	
MJ756	♠:1-561-048-00	CONNECTOR, 5P	
		TRANSISTOR	
Q301	=>8-729-665-47	TRANSISTOR 2SC1362	
Q302	=>8-729-665-47	TRANSISTOR 2SC1362	
Q303	=>8-729-663-47	TRANSISTOR 2SC1364	
Q304	=>8-729-663-47	TRANSISTOR 2SC1364	
Q305	=>8-729-663-47	TRANSISTOR 2SC1364	
Q306	=>8-729-663-47	TRANSISTOR 2SC1364	
Q307	=>8-729-663-47	TRANSISTOR 2SC1364	
Q308	=>8-729-663-47	TRANSISTOR 2SC1364	
Q309	=>8-729-663-47	TRANSISTOR 2SC1364	
Q310	8-729-663-47	TRANSISTOR 2SC1364	
Q311	=>8-729-663-47	TRANSISTOR 2SC1364	
Q312	=>8-729-663-47	TRANSISTOR 2SC1364	
Q401	=>8-729-665-47	TRANSISTOR 2SC1362	
Q402	=>8-729-665-47	TRANSISTOR 2SC1362	
Q403	=>8-729-663-47	TRANSISTOR 2SC1364	
Q404	=>8-729-663-47	TRANSISTOR 2SC1364	
Q405	=>8-729-663-47	TRANSISTOR 2SC1364	
Q406	=>8-729-663-47	TRANSISTOR 2SC1364	
Q407	=>8-729-663-47	TRANSISTOR 2SC1364	
Q408	=>8-729-663-47	TRANSISTOR 2SC1364	

Ref.No.	Part No.	Description	Remark
Q409	=>8-729-663-47	TRANSISTOR 2SC1364	
Q410	8-729-663-47	TRANSISTOR 2SC1364	
Q411	=>8-729-663-47	TRANSISTOR 2SC1364	
Q412	=>8-729-663-47	TRANSISTOR 2SC1364	
		RESISTOR	
R302	1-246-509-00	CARBON 33K 1/4 W 5%	
R303	1-246-481-00	CARBON 2.2K 1/4 W 5%	
R304	1-246-505-00	CARBON 22K 1/4 W 5%	
R305	1-246-453-00	CARBON 150 1/4 W 5%	
R306	1-246-521-00	CARBON 100K 1/4 W 5%	
R307	1-246-509-00	CARBON 33K 1/4 W 5%	
R308	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R309	1-246-473-00	CARBON 1K 1/4 W 5%	
R310	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R311	1-246-521-00	CARBON 100K 1/4 W 5%	
R312	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R313	1-246-543-00	CARBON 820K 1/4 W 5%	
R314	1-246-491-00	CARBON 5.6K 1/4 W 5%	
R315	1-246-521-00	CARBON 100K 1/4 W 5%	
R316	1-246-501-00	CARBON 15K 1/4 W 5%	
R317	1-246-511-00	CARBON 39K 1/4 W 5%	
R318	1-246-473-00	CARBON 1K 1/4 W 5%	
R319	1-246-479-00	CARBON 1.8K 1/4 W 5%	
R320	1-246-449-00	CARBON 100 1/4 W 5%	
R321	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R322	1-246-461-00	CARBON 330 1/4 W 5%	
R323	1-246-501-00	CARBON 15K 1/4 W 5%	
R324	1-246-497-00	CARBON 10K 1/4 W 5%	
R325	1-246-521-00	CARBON 100K 1/4 W 5%	
R326	1-246-503-00	CARBON 18K 1/4 W 5%	
R327	1-246-437-00	CARBON 33 1/4 W 5%	
R328	1-246-521-00	CARBON 100K 1/4 W 5%	
R329	1-246-509-00	CARBON 33K 1/4 W 5%	
R330	1-246-445-00	CARBON 68 1/4 W 5%	
R331	1-246-463-00	CARBON 390 1/4 W 5%	
R332	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R333	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R334	1-246-501-00	CARBON 15K 1/4 W 5%	
R335	1-246-505-00	CARBON 22K 1/4 W 5%	
R336	1-246-501-00	CARBON 15K 1/4 W 5%	
R337	1-246-513-00	CARBON 47K 1/4 W 5%	
R338	1-246-497-00	CARBON 10K 1/4 W 5%	
R339	1-246-543-00	CARBON 820K 1/4 W 5%	
R340	1-246-473-00	CARBON 1K 1/4 W 5%	
R341	1-246-445-00	CARBON 68 1/4 W 5%	
R342	1-246-505-00	CARBON 22K 1/4 W 5%	
R343	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R344	1-246-501-00	CARBON 15K 1/4 W 5%	
R346	1-246-501-00	CARBON 15K 1/4 W 5%	
R347	1-246-521-00	CARBON 100K 1/4 W 5%	
R348	1-246-497-00	CARBON 10K 1/4 W 5%	
R349	1-246-509-00	CARBON 33K 1/4 W 5%	

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : µF, PF : µµF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : µH

Ref.No.	Part No.	Description	Remark
R350	1-246-473-00	CARBON 1K 1/4 W 5%	
R351	1-246-545-00	CARBON 1M 1/4 W 5%	
R352	1-246-449-00	CARBON 100 1/4 W 5%	
R353	1-246-525-00	CARBON 150K 1/4 W 5%	
R354	1-246-473-00	CARBON 1K 1/4 W 5%	
R355	1-246-497-00	CARBON 10K 1/4 W 5%	
R356	1-246-507-00	CARBON 27K 1/4 W 5%	
R357	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R358	1-246-457-00	CARBON 220 1/4 W 5%	
R359	1-246-503-00	CARBON 18K 1/4 W 5%	
R360	1-246-503-00	CARBON 18K 1/4 W 5%	
R361	1-246-491-00	CARBON 5.6K 1/4 W 5%	
R362	1-246-543-00	CARBON 820K 1/4 W 5%	
R363	1-246-501-00	CARBON 15K 1/4 W 5%	
R364	1-246-521-00	CARBON 100K 1/4 W 5%	
R365	1-246-537-00	CARBON 470K 1/4 W 5%	
R366	1-246-517-00	CARBON 68K 1/4 W 5%	
R367	1-246-491-00	CARBON 5.6K 1/4 W 5%	
R368	1-246-507-00	CARBON 27K 1/4 W 5%	
R369	1-246-483-00	CARBON 2.7K 1/4 W 5%	
R370	1-246-491-00	CARBON 5.6K 1/4 W 5%	
R371	1-246-449-00	CARBON 100 1/4 W 5%	
R402	1-246-509-00	CARBON 33K 1/4 W 5%	
R403	1-246-481-00	CARBON 2.2K 1/4 W 5%	
R404	1-246-505-00	CARBON 22K 1/4 W 5%	
R405	1-246-453-00	CARBON 150 1/4 W 5%	
R406	1-246-521-00	CARBON 100K 1/4 W 5%	
R407	1-246-509-00	CARBON 33K 1/4 W 5%	
R408	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R409	1-246-473-00	CARBON 1K 1/4 W 5%	
R410	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R411	1-246-521-00	CARBON 100K 1/4 W 5%	
R412	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R413	1-246-543-00	CARBON 820K 1/4 W 5%	
R414	1-246-491-00	CARBON 5.6K 1/4 W 5%	
R415	1-246-521-00	CARBON 100K 1/4 W 5%	
R416	1-246-501-00	CARBON 15K 1/4 W 5%	
R417	1-246-511-00	CARBON 39K 1/4 W 5%	
R418	1-246-473-00	CARBON 1K 1/4 W 5%	
R419	1-246-479-00	CARBON 1.8K 1/4 W 5%	
R420	1-246-449-00	CARBON 100 1/4 W 5%	
R421	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R422	1-246-461-00	CARBON 330 1/4 W 5%	
R424	1-246-497-00	CARBON 10K 1/4 W 5%	
R425	1-246-521-00	CARBON 100K 1/4 W 5%	
R426	1-246-503-00	CARBON 18K 1/4 W 5%	
R427	1-246-437-00	CARBON 33 1/4 W 5%	
R428	1-246-521-00	CARBON 100K 1/4 W 5%	
R429	1-246-509-00	CARBON 33K 1/4 W 5%	
R430	1-246-445-00	CARBON 68 1/4 W 5%	
R431	1-246-463-00	CARBON 390 1/4 W 5%	
R432	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R433	1-246-489-00	CARBON 4.7K 1/4 W 5%	

Ref.No.	Part No.	Description	Remark
R434	1-246-501-00	CARBON 15K 1/4 W 5%	
R435	1-246-505-00	CARBON 22K 1/4 W 5%	
R436	1-246-501-00	CARBON 15K 1/4 W 5%	
R437	1-246-513-00	CARBON 47K 1/4 W 5%	
R438	1-246-497-00	CARBON 10K 1/4 W 5%	
R439	1-246-543-00	CARBON 820K 1/4 W 5%	
R440	1-246-473-00	CARBON 1K 1/4 W 5%	
R441	1-246-445-00	CARBON 68 1/4 W 5%	
R442	1-246-505-00	CARBON 22K 1/4 W 5%	
R443	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R444	1-246-501-00	CARBON 15K 1/4 W 5%	
R446	1-246-501-00	CARBON 15K 1/4 W 5%	
R447	1-246-521-00	CARBON 100K 1/4 W 5%	
R448	1-246-497-00	CARBON 10K 1/4 W 5%	
R450	1-246-473-00	CARBON 1K 1/4 W 5%	
R456	1-246-507-00	CARBON 27K 1/4 W 5%	
R459	1-246-503-00	CARBON 18K 1/4 W 5%	
R460	1-246-503-00	CARBON 18K 1/4 W 5%	
R461	1-246-491-00	CARBON 5.6K 1/4 W 5%	
R462	1-246-543-00	CARBON 820K 1/4 W 5%	
R463	1-246-501-00	CARBON 15K 1/4 W 5%	
R464	1-246-521-00	CARBON 100K 1/4 W 5%	
R465	1-246-537-00	CARBON 470K 1/4 W 5%	
R466	1-246-517-00	CARBON 68K 1/4 W 5%	
R467	1-246-491-00	CARBON 5.6K 1/4 W 5%	
R471	1-246-449-00	CARBON 100 1/4 W 5%	

VARIAVLE RESISTOR

Ref.No.	Part No.	Description	Remark
RV301	1-226-058-00	RES, ADJ, CARBON 47K	
RV302	1-222-518-12	RES, ADJ, CARBON 4.7K	
RV401	1-226-058-00	RES, ADJ, CARBON 47K	
RV402	1-222-518-12	RES, ADJ, CARBON 4.7K	
RV404	1-224-222-12	RES, ADJ, CARBON 100K	

SWITCH

Ref.No.	Part No.	Description	Remark
S301	1-552-579-00	SWITCH, SLIDE; REC/PB	

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Ref.No.	Part No.	Description	Remark
	♠:1-601-036-00	Z BOARD	E-110
	♠:4-025-180-00	HEAT SINK, Z BOARD	

CAPACITOR

Ref.No.	Part No.	Description	Remark
C901	1-123-319-00	ELECT 47MF 20% 16V	
C902	1-123-309-00	ELECT 330MF 20% 10V	
C903	1-123-317-00	ELECT 22MF 20% 16V	
C904	1-123-308-00	ELECT 220MF 20% 10V	
C905	1-123-316-00	ELECT 10MF 20% 16V	
C906	1-123-319-00	ELECT 47MF 20% 16V	
C907	1-123-319-00	ELECT 47MF 20% 16V	
C908	1-123-322-00	ELECT 330MF 20% 16V	
C909	1-123-307-00	ELECT 100MF 20% 10V	

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

Z **A**

Ref.No.	Part No.	Description	Remark
		DIODE	
D901	8-719-815-55	DIODE 1S1555	
D902	8-719-815-55	DIODE 1S1555	
		COIL	
L902	1-407-184-XX	MICRO INDUCTOR 3.3UH	
L903	1-407-184-XX	MICRO INDUCTOR 3.3UH	
L904	1-407-189-XX	MICRO INDUCTOR 8.2UH	
		TRANSISTOR	
Q901	8-729-663-47	TRANSISTOR 2SC1364	
Q902	=>8-729-424-00	TRANSISTOR 2SB324	
Q903	8-763-113-00	TRANSISTOR 2SC1761	
Q904	8-729-663-47	TRANSISTOR 2SC1364	
		RESISTOR	
R901	1-246-479-00	CARBON 1.8K 1/4 W 5%	
R902	1-246-477-00	CARBON 1.5K 1/4 W 5%	
R903	1-246-471-00	CARBON 820 1/4 W 5%	
R904	1-246-471-00	CARBON 820 1/4 W 5%	
R905	1-246-453-00	CARBON 150 1/4 W 5%	
R906	1-246-455-00	CARBON 180 1/4 W 5%	
R907	1-246-457-00	CARBON 220 1/4 W 5%	
R908	1-246-463-00	CARBON 390 1/4 W 5%	
R909	1-246-475-00	CARBON 1.2K 1/4 W 5%	
R910	1-212-367-00	METAL 3.9 1 W 5%	nonflammable
R911	1-246-475-00	CARBON 1.2K 1/4 W 5%	
R912	1-246-473-00	CARBON 1K 1/4 W 5%	
R913	1-246-497-00	CARBON 10K 1/4 W 5%	
		RESISTOR	
RV303	1-222-787-12	RES, ADJ, CARBON 10K	
RV403	1-222-787-12	RES, ADJ, CARBON 10K	
RV901	1-222-516-12	RES, ADJ, CARBON 470	
RV901	1-222-516-31	RES, ADJ, CARBON 470	
		THERMISTOR	
TH901	1-800-194-11	THERMISTOR	

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Ref.No.	Part No.	Description	Remark
	♠:A-1295-386-A	A BOARD, COMPLETE (US MODEL)	E-56
	♠:A-1295-388-A	A BOARD, COMPLETE (CANADIAN MODEL)	E-56
	1-526-148-00	SOCKET, PICTURE TUBE	
	1-533-146-00	HOLDER, FUSE	
	♠:4-022-535-00	HEAT SINK, TRANSISTOR	
	♠:4-023-604-00	CASE, SHIELD (LOWER)	
	♠:4-023-605-00	CASE, SHIELD (INNER)	
	♠:4-023-606-00	CASE, SHIELD (UPPER)	
	♠:4-025-102-00	BRACKET, CONNECTION; GROUND	
	♠:4-025-103-00	HEAT SINK, IC	
	♠:4-025-115-00	BRACKET, HEAT SINK; IC	

Ref.No.	Part No.	Description			Remark
		CAPACITOR			
C151	1-101-004-00	CERAMIC 0.01MF		50V	
C152	1-101-004-00	CERAMIC 0.01MF		50V	
C201	1-102-941-00	CERAMIC 4PF		50V	(US MODEL)
C201	1-102-947-00	CERAMIC 10PF		50V	(CANADIAN MODEL)
C202	1-101-002-00	CERAMIC 0.0022MF		50V	
C203	1-101-002-00	CERAMIC 0.0022MF		50V	
C204	1-101-002-00	CERAMIC 0.0022MF		50V	
C205	1-101-002-00	CERAMIC 0.0022MF		50V	
C206	1-101-002-00	CERAMIC 0.0022MF		50V	
C207	1-101-884-00	CERAMIC 56PF	5%	50V	
C208	1-101-002-00	CERAMIC 0.0022MF		50V	
C210	1-101-002-00	CERAMIC 0.0022MF		50V	
C211	1-102-971-00	CERAMIC 82PF	5%	50V	
C212	1-101-002-00	CERAMIC 0.0022MF		50V	
C213	1-102-944-00	CERAMIC 7PF	0.5PF	50V	
C214	1-102-971-00	CERAMIC 82PF	5%	50V	
C215	1-101-002-00	CERAMIC 0.0022MF		50V	
C216	1-102-947-00	CERAMIC 10PF	5%	50V	
C217	1-102-947-00	CERAMIC 10PF	5%	50V	
C218	1-102-820-00	CERAMIC 330PF	5%	50V	
C219	1-108-628-11	MYLAR 0.015MF	10%	100V	
C220	1-123-351-00	ELECT 0.47MF	20%	50V	
C221	1-123-316-00	ELECT 10MF	20%	16V	
C222	1-123-316-00	ELECT 10MF	20%	16V	
C223	1-101-004-00	CERAMIC 0.01MF		50V	
C224	1-101-004-00	CERAMIC 0.01MF		50V	
C225	1-123-296-00	ELECT 220MF	20%	6.3V	
C251	1-102-971-00	CERAMIC 82PF	5%	50V	
C252	1-108-630-11	MYLAR 0.022MF	10%	100V	
C253	1-102-947-00	CERAMIC 10PF	5%	50V	
C254	1-102-947-00	CERAMIC 10PF	5%	50V	
C255	1-108-620-00	MYLAR 0.0033MF	10%	100V	
C256	1-123-316-00	ELECT 10MF	20%	16V	
C257	1-108-630-11	MYLAR 0.022MF	10%	100V	
C258	1-101-006-00	CERAMIC 0.047MF		50V	
C259	1-123-306-00	ELECT 47MF	20%	10V	
C260	1-123-328-00	ELECT 4.7MF	20%	25V	
C261	1-101-004-00	CERAMIC 0.01MF		50V	
C262	1-101-004-00	CERAMIC 0.01MF		50V	
C263	1-102-978-00	CERAMIC 220PF	5%	50V	
C381	1-123-328-00	ELECT 4.7MF	20%	25V	
C382	1-123-295-00	ELECT 100MF	20%	6.3V	
C383	1-123-307-00	ELECT 100MF	20%	10V	
C384	1-108-640-11	MYLAR 0.15MF	10%	100V	
C385	1-123-310-00	ELECT 470MF	20%	10V	
C386	1-123-324-00	ELECT 1000MF	20%	16V	
C387	1-102-121-00	CERAMIC 0.0022MF	10%	50V	
C388	1-102-114-00	CERAMIC 470PF	10%	50V	
C389	1-101-002-00	CERAMIC 0.0022MF		50V	
C481	1-123-328-00	ELECT 4.7MF	20%	25V	
C482	1-123-295-00	ELECT 100MF	20%	6.3V	

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CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

Ref.No.	Part No.	Description			Remark
C483	1-123-307-00	ELECT 100MF	20%	10V	
C484	1-108-640-11	MYLAR 0.15MF	10%	100V	
C485	1-123-310-00	ELECT 470MF	20%	10V	
C486	1-123-320-00	ELECT 100MF	20%	16V	
C487	1-102-121-00	CERAMIC 0.0022MF	10%	50V	
C488	1-102-114-00	CERAMIC 470PF	10%	50V	
C501	1-123-328-00	ELECT 4.7MF	20%	25V	
C502	1-101-002-00	CERAMIC 0.0022MF		50V	
C503	1-108-638-00	MYLAR 0.1MF	10%	100V	
C504	1-102-973-00	CERAMIC 100PF	5%	50V	
C551	1-108-632-11	MYLAR 0.033MF	10%	100V	
C552	1-123-352-00	ELECT 1MF	20%	50V	
C553	1-108-636-11	MYLAR 0.068MF	10%	100V	
C554	1-108-636-11	MYLAR 0.068MF	10%	100V	
C555	1-108-628-11	MYLAR 0.015MF	10%	100V	
C556	1-108-632-11	MYLAR 0.033MF	10%	100V	
C557	1-108-634-11	MYLAR 0.047MF	10%	100V	
C558	1-131-199-00	TANTALUM 10MF	10%	16V	
C559	1-123-305-00	ELECT 33MF	20%	10V	
C560	1-123-305-00	ELECT 33MF	20%	10V	
C561	1-123-328-00	ELECT 4.7MF	20%	25V	
C563	1-123-299-00	ELECT 1000MF	20%	6.3V	
C564	1-123-298-00	ELECT 470MF	20%	6.3V	
C601	1-102-116-00	CERAMIC 680PF	10%	50V	
C801	1-108-624-00	MYLAR 0.0068MF	10%	100V	
C802	1-108-624-00	MYLAR 0.0068MF	10%	100V	
C803	1-123-352-00	ELECT 1MF	20%	50V	
C804	1-108-628-11	MYLAR 0.015MF	10%	100V	
C805	1-123-352-00	ELECT 1MF	20%	50V	
C806	1-108-638-00	MYLAR 0.1MF	10%	100V	
C807	1-121-392-00	ELECT SINGLE 3.3MF		25V	
C808	1-108-632-11	MYLAR 0.033MF	10%	100V	
C809	1-108-638-00	MYLAR 0.1MF	10%	100V	
C810	1-108-616-11	MYLAR 0.0015MF	10%	100V	
C811	1-123-306-00	ELECT 47MF	20%	10V	
C812	1-102-978-00	CERAMIC 220PF	5%	50V	
C813	1-123-352-00	ELECT 1MF	20%	50V	
C814	1-123-299-00	ELECT 1000MF	20%	6.3V	
C815	⚠.1-108-624-00	MYLAR 0.0068MF	10%	100V	
C816	⚠.1-108-618-61	MYLAR 0.0022MF	10%	100V	
	⚠.1-108-620-61	MYLAR 0.0033MF	10%	100V	
	⚠.1-108-622-61	MYLAR 0.0047MF	10%	100V	
	⚠.1-108-624-61	MYLAR 0.0068MF	10%	100V	
	⚠.1-108-625-61	MYLAR 0.0082MF	10%	100V	
C817	1-123-296-00	ELECT 220MF	20%	6.3V	
C818	⚠.1-108-620-00	MYLAR 0.0033MF	10%	100V	
C851	1-123-356-00	ELECT 10MF	20%	50V	
C852	1-129-737-00	FILM 0.047MF	20%	630V	

FILTER

Ref.No.	Part No.	Description	Remark
CF251	1-527-260-00	CERAMIC FILTER	

DIODE

Ref.No.	Part No.	Description		Remark
D201	8-719-815-55	DIODE 1S1555		
D202	8-719-143-07	DIODE RD4.3E-B		
D551	8-719-815-55	DIODE 1S1555		
D552	8-719-815-55	DIODE 1S1555		
D553	8-719-815-55	DIODE 1S1555		
D601	⚠.8-719-143-07	DIODE RD4.3E-B		
D602	=>8-719-911-55	DIODE U05G		
D801	8-719-815-55	DIODE 1S1555		
D802	8-719-815-55	DIODE 1S1555		
D803	8-719-815-55	DIODE 1S1555		
D804	=>8-719-305-15	DIODE GH3F		
D851	=>8-719-305-15	DIODE GH3F		
D852	=>8-719-305-15	DIODE GH3F		
D853	8-719-815-55	DIODE 1S1555		

FUSE

Ref.No.	Part No.	Description		Remark
F601	⚠.1-532-578-00	FUSE, 2A		

IC

Ref.No.	Part No.	Description		Remark
IC151	8-759-157-40	IC UPC574J		
IC251	8-759-966-81	IC SN76681N		
IC381	8-759-841-25	IC LA4125		

JACK

Ref.No.	Part No.	Description		Remark
J601	1-507-661-00	JACK, 3P		

COIL

Ref.No.	Part No.	Description		Remark
L201	♠:1-425-606-00	COIL, AIR-CORE (US MODEL)		
L201	♠:1-425-974-00	COIL, AIR-CORE (CANADIAN MODEL)		
L202	1-425-609-00	COIL, AIR-CORE		
L204	1-407-692-11	MICRO INDUCTOR	8.2UH	
L205	1-409-179-00	COIL		
L206	1-407-708-11	MICRO INDUCTOR	180UH	
L207	1-407-708-11	MICRO INDUCTOR	180UH	
L210	1-407-178-XX	MICRO INDUCTOR	1UH	
L501	1-407-709-00	MICRO INDUCTOR	220UH	
L801	1-405-760-00	COIL, OSC		

SEPARATOR

Ref.No.	Part No.	Description		Remark
LC151	1-417-060-00	SEPARATOR, UV		

CONNECTOR

Ref.No.	Part No.	Description		Remark
MJ703	♠:1-551-976-00	CONNECTOR, 6P		
MJ757	♠:1-551-988-00	CONNECTOR, 5P		
MJ951	♠:1-551-974-00	CONNECTOR, 6P		

PLUG

Ref.No.	Part No.	Description		Remark
PJ151	♠:1-526-575-00	SOCKET, PLUG		

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CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

A

Ref.No.	Part No.	Description	Remark
		TRANSISTOR	
Q151	=>8-729-663-47	TRANSISTOR 2SC1364	
Q152	=>8-729-663-47	TRANSISTOR 2SC1364	
Q153	=>8-729-663-47	TRANSISTOR 2SC1364	
Q201	8-729-167-42	TRANSISTOR 2SC1674	
Q202	8-729-167-42	TRANSISTOR 2SC1674	
Q203	8-729-671-14	TRANSISTOR 2SC710	
Q204	8-729-671-14	TRANSISTOR 2SC710	
Q205	8-729-671-14	TRANSISTOR 2SC710	
Q206	=>8-729-663-47	TRANSISTOR 2SC1364	
Q207	=>8-729-663-47	TRANSISTOR 2SC1364	
Q208	=>8-729-663-47	TRANSISTOR 2SC1364	
Q251	=>8-729-663-47	TRANSISTOR 2SC1364	
Q381	=>8-729-663-47	TRANSISTOR 2SC1364	
Q382	=>8-729-663-47	TRANSISTOR 2SC1364	
Q481	=>8-729-663-47	TRANSISTOR 2SC1364	
Q482	=>8-729-663-47	TRANSISTOR 2SC1364	
Q501	8-724-375-01	TRANSISTOR 2SC403C	
Q551	=>8-729-617-77	TRANSISTOR 2SA1027R	
Q552	=>8-729-663-47	TRANSISTOR 2SC1364	
Q553	=>8-729-663-47	TRANSISTOR 2SC1364	
Q554	8-760-335-10	TRANSISTOR 2SC1474	
Q555	8-760-523-10	TRANSISTOR 2SA772-23	
Q601	⚠8-763-213-00	TRANSISTOR 2SA861	
Q602	⚠=>8-729-663-47	TRANSISTOR 2SC1364	
Q801	=>8-729-663-47	TRANSISTOR 2SC1364	
Q802	=>8-729-663-47	TRANSISTOR 2SC1364	
Q803	8-760-413-10	TRANSISTOR 2SC1475	
		RESISTOR	
R151	1-246-494-00	CARBON 7.5K 1/4 W 5%	
R152	1-246-515-00	CARBON 56K 1/4 W 5%	
R153	1-246-503-00	CARBON 18K 1/4 W 5%	
R154	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R156	1-246-521-00	CARBON 100K 1/4 W 5%	
R201	1-246-496-00	CARBON 9.1K 1/4 W 5%	
R202	1-246-475-00	CARBON 1.2K 1/4 W 5%	
R203	1-246-472-00	CARBON 910 1/4 W 5%	
R204	1-246-467-00	CARBON 560 1/4 W 5%	
R205	1-246-449-00	CARBON 100 1/4 W 5%	
R206	1-246-497-00	CARBON 10K 1/4 W 5%	
R207	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R208	1-246-449-00	CARBON 100 1/4 W 5%	
R210	1-246-457-00	CARBON 220 1/4 W 5%	
R211	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R212	1-246-477-00	CARBON 1.5K 1/4 W 5%	
R213	1-246-449-00	CARBON 100 1/4 W 5%	
R215	1-246-451-00	CARBON 120 1/4 W 5%	
R216	1-246-495-00	CARBON 8.2K 1/4 W 5%	
R217	1-246-477-00	CARBON 1.5K 1/4 W 5%	
R218	1-246-463-00	CARBON 390 1/4 W 5%	
R219	1-246-449-00	CARBON 100 1/4 W 5%	
R220	1-246-483-00	CARBON 2.7K 1/4 W 5%	
R221	1-246-477-00	CARBON 1.5K 1/4 W 5%	
R222	1-246-449-00	CARBON 100 1/4 W 5%	
R223	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R224	1-246-461-00	CARBON 330 1/4 W 5%	
R225	1-246-467-00	CARBON 560 1/4 W 5%	
R226	1-246-473-00	CARBON 1K 1/4 W 5%	
R227	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R228	1-246-455-00	CARBON 180 1/4 W 5%	
R229	1-246-525-00	CARBON 150K 1/4 W 5%	
R230	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R231	1-246-467-00	CARBON 560 1/4 W 5%	
R232	1-246-457-00	CARBON 220 1/4 W 5%	
R233	1-246-483-00	CARBON 2.7K 1/4 W 5%	
R234	1-246-503-00	CARBON 18K 1/4 W 5%	
R235	1-246-481-00	CARBON 2.2K 1/4 W 5%	
R236	1-246-471-00	CARBON 820 1/4 W 5%	
R237	1-246-441-00	CARBON 47 1/4 W 5%	
R238	1-213-124-00	METAL 27 1 W 5%	nonflammable
R251	1-246-469-00	CARBON 680 1/4 W 5%	
R252	1-246-501-00	CARBON 15K 1/4 W 5%	
R253	1-246-499-00	CARBON 12K 1/4 W 5%	
R254	1-246-497-00	CARBON 10K 1/4 W 5%	
R255	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R256	1-246-497-00	CARBON 10K 1/4 W 5%	
R257	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R258	1-246-475-00	CARBON 1.2K 1/4 W 5%	
R259	1-246-473-00	CARBON 1K 1/4 W 5%	
R381	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R382	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R383	1-246-447-00	CARBON 82 1/4 W 5%	
R384	1-246-503-00	CARBON 18K 1/4 W 5%	
R385	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R481	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R482	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R483	1-246-447-00	CARBON 82 1/4 W 5%	
R484	1-246-503-00	CARBON 18K 1/4 W 5%	
R501	1-246-451-00	CARBON 120 1/4 W 5%	
R502	1-246-528-00	CARBON 200K 1/4 W 5%	
R503	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R504	1-246-501-00	CARBON 15K 1/4 W 5%	
R505	1-246-458-00	CARBON 240 1/4 W 5%	
R506	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R507	1-246-537-00	CARBON 470K 1/4 W 5%	
R508	1-246-473-00	CARBON 1K 1/4 W 5%	
R509	1-246-515-00	CARBON 56K 1/4 W 5%	
R510	1-246-525-00	CARBON 150K 1/4 W 5%	
R551	1-246-449-00	CARBON 100 1/4 W 5%	
R552	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R553	1-246-507-00	CARBON 27K 1/4 W 5%	
R554	1-246-525-00	CARBON 150K 1/4 W 5%	
R555	1-246-475-00	CARBON 1.2K 1/4 W 5%	
R556	1-246-493-00	CARBON 6.8K 1/4 W 5%	

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CAPACITORS
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RESISTORS
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COILS
- MMH : mH, UH : μH

Ref.No.	Part No.	Description	Remark
R557	1-246-491-00	CARBON 5.6K 1/4 W 5%	
R558	1-246-505-00	CARBON 22K 1/4 W 5%	
R559	1-246-481-00	CARBON 2.2K 1/4 W 5%	
R560	1-246-495-00	CARBON 8.2K 1/4 W 5%	
R561	1-246-427-00	CARBON 12 1/4 W 5%	
R562	1-246-409-00	CARBON 2.2 1/4 W 5%	
R563	1-246-455-00	CARBON 180 1/4 W 5%	
R564	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R565	1-246-467-00	CARBON 560 1/4 W 5%	
R566	1-246-507-00	CARBON 27K 1/4 W 5%	
R567	1-246-419-00	CARBON 5.6 1/4 W 5%	
R568	1-246-475-00	CARBON 1.2K 1/4 W 5%	
R569	1-246-409-00	CARBON 2.2 1/4 W 5%	
R570	1-246-483-00	CARBON 2.7K 1/4 W 5%	
R571	1-246-459-00	CARBON 270 1/4 W 5%	
R572	1-212-371-00	METAL 8.2 1 W 5% nonflammable	
R573	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R601	1-246-511-00	CARBON 39K 1/4 W 5%	
R602	1-246-455-00	CARBON 180 1/4 W 5%	
R603	⚠.1-246-483-00	CARBON 2.7K 1/4 W 5%	
R604	⚠.1-246-479-00	CARBON 1.8K 1/4 W 5%	
R801	1-246-497-00	CARBON 10K 1/4 W 5%	
R802	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R803	1-246-467-00	CARBON 560 1/4 W 5%	
R804	1-246-467-00	CARBON 560 1/4 W 5%	
R805	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R806	1-246-473-00	CARBON 1K 1/4 W 5%	
R807	1-246-511-00	CARBON 39K 1/4 W 5%	
R808	1-246-471-00	CARBON 820 1/4 W 5%	
R809	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R810	1-246-481-00	CARBON 2.2K 1/4 W 5%	
R811	1-246-443-00	CARBON 56 1/4 W 5%	
R812	1-246-455-00	CARBON 180 1/4 W 5%	
R813	1-246-461-00	CARBON 330 1/4 W 5%	
R814	1-213-127-00	METAL 47 1 W 5% nonflammable	
R815	1-246-459-00	CARBON 270 1/4 W 5%	
R816	1-246-409-00	CARBON 2.2 1/4 W 5%	
R851	1-246-529-00	CARBON 220K 1/4 W 5%	
R852	1-246-529-00	CARBON 220K 1/4 W 5%	
R853	1-202-677-35	SOLID 22M 1/2 W 10%	
R854	1-246-471-00	CARBON 820 1/4 W 5%	
R855	1-246-455-00	CARBON 180 1/4 W 5%	

VARIABLE RESISTOR

Ref.No.	Part No.	Description	Remark
RV151	1-224-222-12	RES, ADJ, CARBON 100K	
RV152	1-224-222-12	RES, ADJ, CARBON 100K	
RV153	1-222-786-12	RES, ADJ, CARBON 22K	
RV201	1-222-517-12	RES, ADJ, CARBON 1K	
RV501	1-224-897-00	RES, ADJ, CARBON 1K	
RV502	1-224-899-00	RES, ADJ, CARBON 250K	
RV551	1-224-898-00	RES, ADJ, CARBON 100K	
RV552	1-222-787-12	RES, ADJ, CARBON 10K	
RV601	⚠.1-222-517-12	RES, ADJ, CARBON 1K	
RV801	1-224-897-00	RES, ADJ, CARBON 1K	
RV951	1-226-918-00	RES, VAR, CARBON(WITH SW) 200K	

SWITCH

Ref.No.	Part No.	Description	Remark
S151	1-553-006-00	SWITCH, ROTARY SLIDE	

TRANSFORMER

Ref.No.	Part No.	Description	Remark
T201	1-404-118-00	VIFT	
T251	1-404-103-00	COIL, SIF	
T801	⚠.1-453-077-00	TRANSFORMER, FLYBACK; FBT	
T851	⚠.1-442-757-00	TRANSFORMER, HEATER	

THERMISTOR

Ref.No.	Part No.	Description	Remark
TH201	1-800-196-21	THERMISTOR, S-300	
TH202	1-800-196-21	THERMISTOR, S-300	
TH551	1-800-196-21	THERMISTOR, S-300	

TUNER

Ref.No.	Part No.	Description	Remark
TU151	⚠.1-463-227-00	VHF TUNER (BT-806)	
TU152	⚠.1-463-226-00	UHF TUNER (BT-846)	

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♠:1-602-734-11 X4 BOARD (CANADIAN MODEL ONLY) E-61

CAPACITOR

Ref.No.	Part No.	Description	Remark
C202	1-101-002-00	CERAMIC 0.0022MF 50V	

COIL

Ref.No.	Part No.	Description	Remark
L208	1-409-257-00	COIL, TRAP	
L209	1-409-258-00	COIL, TRAP 39.75MHZ	

RESISTOR

Ref.No.	Part No.	Description	Remark
R239	1-246-427-00	CARBON 12 1/4 W 5%	
R240	1-246-427-00	CARBON 12 1/4 W 5%	

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♠:1-601-044-00 H5 BOARD E-105

SWITCH

Ref.No.	Part No.	Description	Remark
S702	1-552-855-00	SWITCH, PUSHBUTTON	

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♠:1-601-041-00 H2 BOARD E-104

Ref.No.	Part No.	Description	Remark
	♠:1-534-872-21	PIN CABLE	E-4
	♠:1-551-383-00	CABLE WITH PIN	E-57
	♠:4-025-166-00	COVER, SWITCH	

DIODE

Ref.No.	Part No.	Description	Remark
D701	=>8-719-156-25	DIODE RD5.6E-B2Z	
D702	8-719-815-55	DIODE 1S1555	

NOTE:

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- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

CONNECTOR

Ref.No.	Part No.	Description	Remark
P701	♠:1-508-910-00	PIN, CONNECTOR 12P	
P702	♠:1-508-846-00	PIN, CONNECTOR 8P	
P703	♠:1-508-845-00	PIN, CONNECTOR 6P	

RESISTOR

Ref.No.	Part No.	Description	Remark
R701	1-246-507-00	CARBON 27K 1/4 W 5%	
R702	1-246-492-00	CARBON 6.2K 1/4 W 5%	
R703	1-246-507-00	CARBON 27K 1/4 W 5%	
R704	1-246-492-00	CARBON 6.2K 1/4 W 5%	
R705	1-213-134-00	METAL 180 1 W 5% nonflammable	
R706	⚠1-213-124-00	METAL 27 1 W 5% nonflammable	
R708	1-246-503-00	CARBON 18K 1/4 W 5%	
R709	1-246-519-00	CARBON 82K 1/4 W 5%	
R710	1-246-535-00	CARBON 390K 1/4 W 5%	
R711	1-246-495-00	CARBON 8.2K 1/4 W 5%	

SWITCH

Ref.No.	Part No.	Description	Remark
S701	1-553-007-00	SWITCH, ROTARY SLIDE	

****

Ref.No.	Part No.	Description	Remark
	♠:1-601-037-00	X1 BOARD	E-108

CONNECTOR

Ref.No.	Part No.	Description	Remark
P301	♠:1-508-845-00	PIN, CONNECTOR 6P	

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Ref.No.	Part No.	Description	Remark
	♠:1-601-038-00	X2 BOARD	E-107

CONNECTOR

Ref.No.	Part No.	Description	Remark
P302	♠:1-508-742-00	PIN, CONNECTOR 3P	
P303	♠:1-508-742-00	PIN, CONNECTOR 3P	

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Ref.No.	Part No.	Description	Remark
	♠:1-601-040-00	H1 BOARD	E-112
	♠:4-025-168-00	PLATE, SHIELD	
	♠:4-025-169-00	INSULATOR (A)	

CAPACITOR

Ref.No.	Part No.	Description	Remark
C758	1-108-616-11	MYLAR 0.0015MF 10% 100V	
C759	1-108-626-11	MYLAR 0.01MF 10% 100V	
C760	1-108-632-11	MYLAR 0.033MF 10% 100V	
C761	1-108-638-00	MYLAR 0.1MF 10% 100V	
C762	1-108-616-11	MYLAR 0.0015MF 10% 100V	
C763	1-108-626-11	MYLAR 0.01MF 10% 100V	
C764	1-108-632-11	MYLAR 0.033MF 10% 100V	
C765	1-108-638-00	MYLAR 0.1MF 10% 100V	
C766	1-108-626-11	MYLAR 0.01MF 10% 100V	

CONNECTOR

Ref.No.	Part No.	Description	Remark
P751	♠:1-508-734-00	PIN, CONNECTOR 3P	
P752	♠:1-508-797-00	PIN, CONNECTOR 4P	
P753	♠:1-508-797-00	PIN, CONNECTOR 4P	
P755	♠:1-508-845-00	PIN, CONNECTOR 6P	
P756	♠:1-508-743-00	PIN, CONNECTOR 5P	
P757	♠:1-508-743-00	PIN, CONNECTOR 5P	

RESISTOR

Ref.No.	Part No.	Description	Remark
R751	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R752	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R760	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R761	1-246-497-00	CARBON 10K 1/4 W 5%	
R762	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R763	1-246-497-00	CARBON 10K 1/4 W 5%	
R764	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R765	1-246-497-00	CARBON 10K 1/4 W 5%	
R766	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R767	1-246-497-00	CARBON 10K 1/4 W 5%	

VARIABLE RESISTOR

Ref.No.	Part No.	Description	Remark
RV751	1-226-632-00	RES, VAR, SLIDE 100K/100K	
RV752	1-226-631-00	RES, VAR, SLIDE 100K-A/100K-A	
RV753	1-226-633-00	RES, VAR, SLIDE 10K-A	

SWITCH

Ref.No.	Part No.	Description	Remark
S751	1-516-963-00	SWITCH, LEVER SLIDE	
S752	1-553-002-00	SWITCH, LEVER SLIDE	
S753	1-553-002-00	SWITCH, LEVER SLIDE	
S754	1-516-963-00	SWITCH, LEVER SLIDE	

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Ref.No.	Part No.	Description	Remark
	♠:A-1265-014-A	W BOARD, COMPLETE	E-55
	1-401-673-00	ANTENNA, FERRITE-ROD; AM	
	♠:3-538-856-00	PIN, LEAD	
	♠:3-551-850-00	PLATE (C), SHIELD	
	♠:3-551-899-00	PLATE (E), SHIELD	
	♠:4-022-677-00	INSULATOR (E)	
	♠:4-025-109-00	PLATE (B), SHIELD	
	♠:4-025-173-00	PLATE (F), SHIELD	
	♠:4-025-192-00	PLATE (D), SHIELD	

CAPACITOR

Ref.No.	Part No.	Description	Remark
C1	1-102-942-00	CERAMIC 5PF 0.5PF 50V	
C2	1-101-004-00	CERAMIC 0.01MF 50V	
C3	1-101-004-00	CERAMIC 0.01MF 50V	
C4	1-102-959-00	CERAMIC 22PF 5% 50V	
C5	1-101-004-00	CERAMIC 0.01MF 50V	
C6	1-101-004-00	CERAMIC 0.01MF 50V	
C7	1-101-004-00	CERAMIC 0.01MF 50V	
C8	1-101-004-00	CERAMIC 0.01MF 50V	
C9	1-102-937-00	CERAMIC 4PF 0.25PF 50V	
C10	1-102-945-00	CERAMIC 8PF 0.5PF 50V	

NOTE:

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- Items marked "♠" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

Ref.No.	Part No.	Description			Remark
C11	1-102-964-00	CERAMIC 36PF	5%	50V	
C12	1-101-974-00	CERAMIC 20PF	5%	50V	
C13	1-102-934-00	CERAMIC 1PF	0.25PF	50V	
C14	1-102-934-00	CERAMIC 1PF	0.25PF	50V	
C15	1-123-351-00	ELECT 0.47MF	20%	50V	
C16	1-101-004-00	CERAMIC 0.01MF		50V	
C17	1-101-005-00	CERAMIC 0.022MF		50V	
C18	1-101-004-00	CERAMIC 0.01MF		50V	
C19	1-101-005-00	CERAMIC 0.022MF		50V	
C20	1-101-004-00	CERAMIC 0.01MF		50V	
C21	1-123-316-00	ELECT 10MF	20%	16V	
C22	1-102-978-00	CERAMIC 220PF	5%	50V	
C23	1-102-978-00	CERAMIC 220PF	5%	50V	
C24	1-123-306-00	ELECT 47MF	20%	10V	
C25	1-102-975-00	CERAMIC 100PF	10%	50V	
C26	1-123-308-00	ELECT 220MF	20%	10V	
C27	1-123-307-00	ELECT 100MF	20%	10V	
C28	1-102-114-00	CERAMIC 470PF	10%	50V	
C29	1-101-004-00	CERAMIC 0.01MF		50V	
C30	1-102-936-00	CERAMIC 3PF SL	0.25PF	50V	
C31	1-101-005-00	CERAMIC 0.022MF		50V	
C33	1-161-013-00	CERAMIC 0.01MF	10%	25V	
C34	1-101-005-00	CERAMIC 0.022MF		50V	
C35	1-123-317-00	ELECT 22MF	20%	16V	
C36	1-101-004-00	CERAMIC 0.01MF		50V	
C37	1-101-005-00	CERAMIC 0.022MF		50V	
C38	1-161-013-00	CERAMIC 0.01MF	10%	25V	
C39	1-161-013-00	CERAMIC 0.01MF	10%	25V	
C40	1-123-295-00	ELECT 100MF	20%	6.3V	
C41	1-130-147-00	FILM 0.0024MF	5%	50V	
C42	1-130-030-00	FILM 0.01MF	5%	50V	
C43	1-161-003-00	CERAMIC 0.0015MF	10%	25V	
C44	1-123-352-00	ELECT 1MF	20%	50V	
C45	1-123-316-00	ELECT 10MF	20%	16V	
C46	1-123-328-00	ELECT 4.7MF	20%	25V	
C47	1-123-328-00	ELECT 4.7MF	20%	25V	
C48	1-161-005-00	CERAMIC 0.0022MF	10%	25V	
C49	1-161-005-00	CERAMIC 0.0022MF	10%	25V	
C50	1-161-005-00	CERAMIC 0.0022MF	10%	25V	
C51	1-161-005-00	CERAMIC 0.0022MF	10%	25V	
C52	1-161-003-00	CERAMIC 0.0015MF	10%	25V	
C53	1-161-003-00	CERAMIC 0.0015MF	10%	25V	
C54	1-161-011-00	CERAMIC 0.0068MF	10%	25V	
C55	1-161-011-00	CERAMIC 0.0068MF	10%	25V	
C56	1-102-935-00	CERAMIC 2PF	0.25PF	50V	
C57	1-101-004-00	CERAMIC 0.01MF		50V	
C58	1-101-004-00	CERAMIC 0.01MF		50V	
C59	1-101-004-00	CERAMIC 0.01MF		50V	
C60	1-102-958-00	CERAMIC 20PF	5%	50V	
C61	1-101-004-00	CERAMIC 0.01MF		50V	
C62	1-101-004-00	CERAMIC 0.01MF		50V	

FILTER

Ref.No.	Part No.	Description			Remark
CF1,2	1-527-184-XX	CERAMIC FILTER			
CP1	1-231-286-00	BANDPASS FILTER			

TUNING CAPACITOR

CV1-4	1-151-215-XX	TUNING CAPACITOR			

DIODE

D1	8-724-375-01	TRANSISTOR 2SC403C			
D2	=>8-719-026-11	DIODE 1T261			
D3	=>8-719-026-11	DIODE 1T261			
D4	8-719-422-21	DIODE 1T22M			
D5	8-719-422-21	DIODE 1T22M			

IC

IC1	8-759-833-01	IC LA3301			

COIL

L2	1-425-632-00	COIL, HIGH FREQUENCY (FM)			
L3	1-459-157-00	COIL			
L4	1-407-175-XX	MICRO INDUCTOR	330UH		
L5	1-401-526-00	COIL, ANTENNA			

CONNECTOR

MJ702	♠:1-551-727-00	CONNECTOR, 8P			

TRANSISTOR

Q1	8-729-671-14	TRANSISTOR 2SC710			
Q2	8-729-167-42	TRANSISTOR 2SC1674			
Q3	8-729-671-13	TRANSISTOR 2SC710			
Q4	8-729-671-14	TRANSISTOR 2SC710			
Q5	8-729-671-13	TRANSISTOR 2SC710			
Q6	8-729-671-13	TRANSISTOR 2SC710			
Q7	8-729-671-15	TRANSISTOR 2SC710			
Q8	8-729-671-13	TRANSISTOR 2SC710			
Q9	8-729-671-14	TRANSISTOR 2SC710			

RESISTOR

R1	1-246-525-00	CARBON 150K	1/4 W	5%	
R2	1-246-467-00	CARBON 560	1/4 W	5%	
R3	1-246-449-00	CARBON 100	1/4 W	5%	
R4	1-246-531-00	CARBON 270K	1/4 W	5%	
R5	1-246-467-00	CARBON 560	1/4 W	5%	
R6	1-246-481-00	CARBON 2.2K	1/4 W	5%	
R7	1-246-475-00	CARBON 1.2K	1/4 W	5%	
R8	1-246-515-00	CARBON 56K	1/4 W	5%	
R9	1-246-466-00	CARBON 510	1/4 W	5%	
R10	1-246-521-00	CARBON 100K	1/4 W	5%	
R11	1-246-521-00	CARBON 100K	1/4 W	5%	
R12	1-246-441-00	CARBON 47	1/4 W	5%	
R13	1-246-457-00	CARBON 220	1/4 W	5%	
R14	1-246-517-00	CARBON 68K	1/4 W	5%	
R15	1-246-477-00	CARBON 1.5K	1/4 W	5%	

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CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

Ref.No.	Part No.	Description	Remark
R16	1-246-473-00	CARBON 1K 1/4 W 5%	
R17	1-246-461-00	CARBON 330 1/4 W 5%	
R18	1-246-461-00	CARBON 330 1/4 W 5%	
R19	1-246-497-00	CARBON 10K 1/4 W 5%	
R20	1-246-517-00	CARBON 68K 1/4 W 5%	
R21	1-246-473-00	CARBON 1K 1/4 W 5%	
R22	1-246-517-00	CARBON 68K 1/4 W 5%	
R23	1-246-465-00	CARBON 470 1/4 W 5%	
R24	1-246-473-00	CARBON 1K 1/4 W 5%	
R25	1-246-535-00	CARBON 390K 1/4 W 5%	
R26	1-246-467-00	CARBON 560 1/4 W 5%	
R27	1-246-455-00	CARBON 180 1/4 W 5%	
R28	1-246-473-00	CARBON 1K 1/4 W 5%	
R29	1-246-473-00	CARBON 1K 1/4 W 5%	
R30	1-246-492-00	CARBON 6.2K 1/4 W 5%	
R31	1-246-441-00	CARBON 47 1/4 W 5%	
R32	1-246-473-00	CARBON 1K 1/4 W 5%	
R33	1-246-501-00	CARBON 15K 1/4 W 5%	
R34	1-246-521-00	CARBON 100K 1/4 W 5%	
R35	1-246-457-00	CARBON 220 1/4 W 5%	
R36	1-246-466-00	CARBON 510 1/4 W 5%	
R37	1-246-527-00	CARBON 180K 1/4 W 5%	
R38	1-246-507-00	CARBON 27K 1/4 W 5%	
R39	1-246-473-00	CARBON 1K 1/4 W 5%	
R40	1-246-473-00	CARBON 1K 1/4 W 5%	
R41	1-246-457-00	CARBON 220 1/4 W 5%	
R42	1-246-469-00	CARBON 680 1/4 W 5%	
R43	1-246-529-00	CARBON 220K 1/4 W 5%	
R44	1-246-497-00	CARBON 10K 1/4 W 5%	
R45	1-246-484-00	CARBON 3K 1/4 W 5%	
R46	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R47	1-246-487-00	CARBON 3.9K 1/4 W 5%	
R48	1-246-493-00	CARBON 6.8K 1/4 W 5%	
R49	1-246-483-00	CARBON 2.7K 1/4 W 5%	
R50	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R51	1-246-485-00	CARBON 3.3K 1/4 W 5%	
R52	1-246-475-00	CARBON 1.2K 1/4 W 5%	
R53	1-246-466-00	CARBON 510 1/4 W 5%	
R55	1-246-489-00	CARBON 4.7K 1/4 W 5%	
R56	1-246-483-00	CARBON 2.7K 1/4 W 5%	
R57	1-246-483-00	CARBON 2.7K 1/4 W 5%	
R58	1-246-486-00	CARBON 3.6K 1/4 W 5%	
R59	1-246-486-00	CARBON 3.6K 1/4 W 5%	
R60	1-246-472-00	CARBON 910 1/4 W 5%	
R61	1-246-472-00	CARBON 910 1/4 W 5%	
R62	1-246-425-00	CARBON 10 1/4 W 5%	
R63	1-246-469-00	CARBON 680 1/4 W 5%	

VARIABLE RESISTOR

RV1	1-222-517-31	RES, ADJ, CARBON 1K

SWITCH

Ref.No.	Part No.	Description	Remark
S1-1-3	1-553-008-00	SWITCH, SLIDE	

TRANSFORMER

T1	1-403-872-00	I.F.T CONVERTER, FM
T2	1-403-952-00	TRANSFORMER, FM DISCRI
T3	1-403-953-00	TRANSFORMER, FM DISCRI
T4	1-404-041-00	COIL, AM DETECTION
T5	1-405-655-00	COIL, AM OSC
T6	1-425-956-00	COIL, MPX
T7	1-425-956-00	COIL, MPX
T8	1-403-144-00	I.F.T

****

MISCELLANEOUS

	1-501-157-XX	ANTENNA, TELESCOPIC DIPOLE	E-9
	1-553-005-00	SWITCH, ROTALY	E-60
	1-548-527-21	COUNTER, TAPE	E-203
HE	8-685-096-02	HEAD, ERASE; ERB5-36	E-201
HRP	8-829-373-00	HEAD, REC/PB; PP181-3602	E-202
L901	⚠.1-451-149-31	DEFLECTION YOKE	E-52
M	8-835-018-01	METER, DNF-1000B	E-204
ME701	1-520-325-00	METER, LEVEL	E-113
ME702	1-520-324-00	METER, LEVEL	E-114
MJ301	♠:1-555-356-00	CONNECTOR ASSY, 6P	
MJ302	♠:1-551-717-00	CONNECTOR, 3P	
MJ303	♠:1-551-717-00	CONNECTOR, 3P	
MJ481	♠:1-555-340-00	CONNECTOR ASSY, 5P	
MJ601	♠:1-551-808-00	CONNECTOR, 2P	
MJ751	♠:1-551-935-00	CONNECTOR ASSY, 3P	E-58
PL951	1-518-316-00	LAMP, PILOT	
PT951	⚠.1-446-732-11	TRANSFORMER, POWER	E-102
S901	1-552-694-00	SWITCH, LEAF	E-251
SP951	1-502-854-00	SPEAKER	E-5
SP952	1-502-854-00	SPEAKER	E-5
V901	⚠.8-731-104-45	PICTURE TUBE, CT-556	E-51

ACCESSORIES AND PACKING MATERIALS

Part No.	Description	Remark
X-3701-105-0	TIP ASSY, CLEANING; HEAD	
1-506-309-00	PLUG, SHORT (SP-100)	
⚠.1-551-379-00	CORD, POWER (US MODEL)	
⚠.1-551-399-00	CORD, POWER (CANADIAN MODEL)	
3-701-625-00	BAG, POLYETHYLENE	
4-025-175-00	BAG, PROTECTION	
4-025-177-00	CUSHION, LEFT	
4-025-178-00	CUSHION, RIGHT	
4-025-904-00	CARTON (US MODEL)	
4-025-905-00	CARTON (CANADIAN MODEL)	
4-491-213-21	INSTRUCTION (US MODEL)	
4-495-899-21	MANUAL, INSTRUCTION (US MODEL)	
4-495-899-31	MANUAL, INSTRUCTION (CANADIAN MODEL)	
8-890-241-00	TAPE, CASSETTE (CHF-30)	

NOTE:

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CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms.

COILS
- MMH : mH, UH : μH

STANDARD PARTS LIST

**** CAPACITOR ELECT ****

uF	6.3V	10V	16V	25V	35V	50V	100V	160V	250V	350V
	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
0.47						1-121-726				
1.0						391	1-123-249	1-123-252	1-123-003	1-121-168
2.2						450	250	026		1-123-028
3.3				1-121-392		393	1-121-995		004	006
4.7				395		396	1-123-255	1-121-246	1-121-759	007
10			1-121-651	398		738	1-121-126	999	1-123-254	008
22			479	480	1-121-662	152	996	1-123-253		022
33			403	404	652	405	997	919		
47		1-121-352	409	410	653	411	1-123-251			
100		414	415	416	357	417	084			
220	1-121-419	420	421	422	261	423				
330	751	805	521	654	655	656				
470	424	425	426	733	361	810				
1000		736	245	657	388	1-123-061				
2200	658	659	660	1-123-067	984					
3300	661	1-121-075	1-123-071							

**** CAPACITOR ****

MYLAR			
	50V	100V	200V
uF	10%	10%	10%
0.001	1-108-227	1-108-365	1-108-409
0.0012	351	366	410
0.0015	228	367	411
0.0018	352	368	412
0.0022	230	369	413
0.0027	353	370	414
0.0033	232	371	415
0.0039	354	372	416
0.0047	234	373	417
0.0056	355	374	418
0.0068	237	375	419
0.0082	356	376	420
0.01	239	377	421
0.012	357	378	422
0.015	240	379	423
0.018	358	380	424
0.022	242	381	425
0.027	359	382	426
0.033	244	383	427
0.039	360	384	428
0.047	246	385	429
0.056	361	386	430
0.068	249	387	431
0.082	362	388	432
0.1	251	389	433
0.12	363	390	434
0.15	252	391	435
0.18	364	392	436
0.22	254	393	437
0.27	854		
0.33	855		
0.39	856		
0.47	857		

CERAMIC

	pF	Part No.
	0.5	1-101-837
	0.75	586
	1.0	1-102-934
	1.5	1-101-576
	2.0	1-102-935
S	3	936
L	4	937
	5	942
	6	943
	7	944
	8	945
	9	946
	10	947
	11	948
	12	949
	13	950
	15	951
	16	952
	18	953
	20	958
	22	959
	24	960
	27	961
	30	962
	33	963
	36	964
	39	965
	43	966
	47	1-101-880
	51	882
	56	884
	62	886
	68	888
	75	890
	82	1-102-971
	91	972

	pF	Part No.
	100	1-102-973
	110	815
	120	816
	130	1-101-081
	150	361
S	160	367
	180	1-102-976
L	200	977
	220	978
	240	979
	270	980
	300	981
	330	820
	360	821
	390	822
	430	823
	470	824
	510	1-101-059

	560	1-102-115
	630	116
	820	117
	1000	074
	1200	118
	1500	119
B	1800	120
	2200	121
	2700	122
	3300	123
	3900	124
	4700	125
	5600	126
	6800	127
	8200	128
	10000	129

	pF	Part No.
	1000	1-101-001
	2200	002
F	4700	003
	10000	004
	22000	005
	47000	006

1/4 WATT CARBON RESISTOR

	Part No.		Part No.		Part No.		Part No.		Part No.		Part No.		Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0K	1-246-473-00	10K	1-246-497-00	100K	1-246-521-00	1.0M	1-246-545-00
1.1	402-00	11	426-00	110	450-00	1.1K	474-00	11K	498-00	110K	522-00	1.1M	814-00
1.2	403-00	12	427-00	120	451-00	1.2K	475-00	12K	499-00	120K	523-00	1.2M	815-00
1.3	404-00	13	428-00	130	452-00	1.3K	576-00	13K	500-00	130K	524-00	1.3M	816-00
1 5	405-00	15	429-00	150	453-00	1.5K	577-00	15K	501-00	150K	525-00	1.5M	817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6K	1-246-578-00	16K	1-246-502-00	160K	11-246-26-00	1.6M	1-246-818-00
1.8	407-00	18	431-00	180	455-00	1.8K	579-00	18K	503-00	180K	527-00	1.8M	819-00
2.0	408-00	20	432-00	200	456-00	2.0K	580-00	20K	504-00	200K	528-00	2.0M	820-00
2.2	409-00	22	433-00	220	457-00	2.2K	581-00	22K	505-00	220K	529-00	2.2M	821-00
2.4	410-00	24	434-00	240	458-00	2.4K	582-00	24K	506-00	240K	530-00	2.4M	754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7K	1-246-583-00	27K	1-246-507-00	270K	1-246-531-00	2.7M	1-246-755-00
3.0	412-00	30	436-00	300	460-00	3.0K	584-00	30K	508-00	300K	532-00	3.0M	756-00
3.3	413-00	33	437-00	330	461-00	3.3K	585-00	33K	509-00	330K	533-00	3.3M	757-00
3.6	414-00	36	438-00	360	462-00	3.6K	586-00	36K	510-00	360K	534-00	3.6M	758-00
3.9	415-00	39	439-00	390	463-00	3.9K	587-00	39K	511-00	390K	535-00	3.9M	759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3K	1-246-488-00	43K	1-246-512-00	430K	1-246-536-00	4.3M	1-246-760-00
4.7	417-00	47	441-00	470	465-00	4.7K	489-00	47K	513-00	470K	537-00	4.7M	761-00
5.1	418-00	51	442-00	510	466-00	5.1K	490-00	51K	514-00	510K	538-00	5.1M	762-00
5.6	419-00	56	443-00	560	467-00	5.6K	491-00	56K	515-00	560K	539-00		
6.2	420-00	62	444-00	620	468-00	6.2K	492-00	62K	516-00	620K	540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8K	1-246-493-00	68K	1-246-517-00	680K	1-246-541-00		
7.5	422-00	75	446-00	750	470-00	7.5K	494-00	75K	518-00	750K	542-00		
8.2	423-00	82	447-00	820	471-00	8.2K	495-00	82K	519-00	820K	543-00		
9.1	424-00	91	448-00	910	472-00	9.1K	496-00	91K	520-00	910K	544-00		

HARDWARE NOMENCLATURE

Screw:

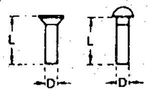
– P 3 x 10

L: Length in mm

D: Diameter in mm

Type of head

Indicated slotted-head only.
Unless otherwise indicated, it means
cross-recessed head (Phillips type).

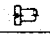


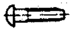
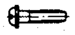
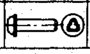
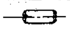
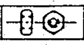
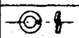
Nut, Washer, Retaining ring:

N 3

Diameter of usable screw or shaft

Reference designation

Reference Designation	Shape	Description	Remarks
		SCREWS	
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCREWS	
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N		nut	
		WASHERS	
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E		retaining ring	
G		grip-type retaining ring	

Sony Corporation

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80E0450-1
Printed in Japan

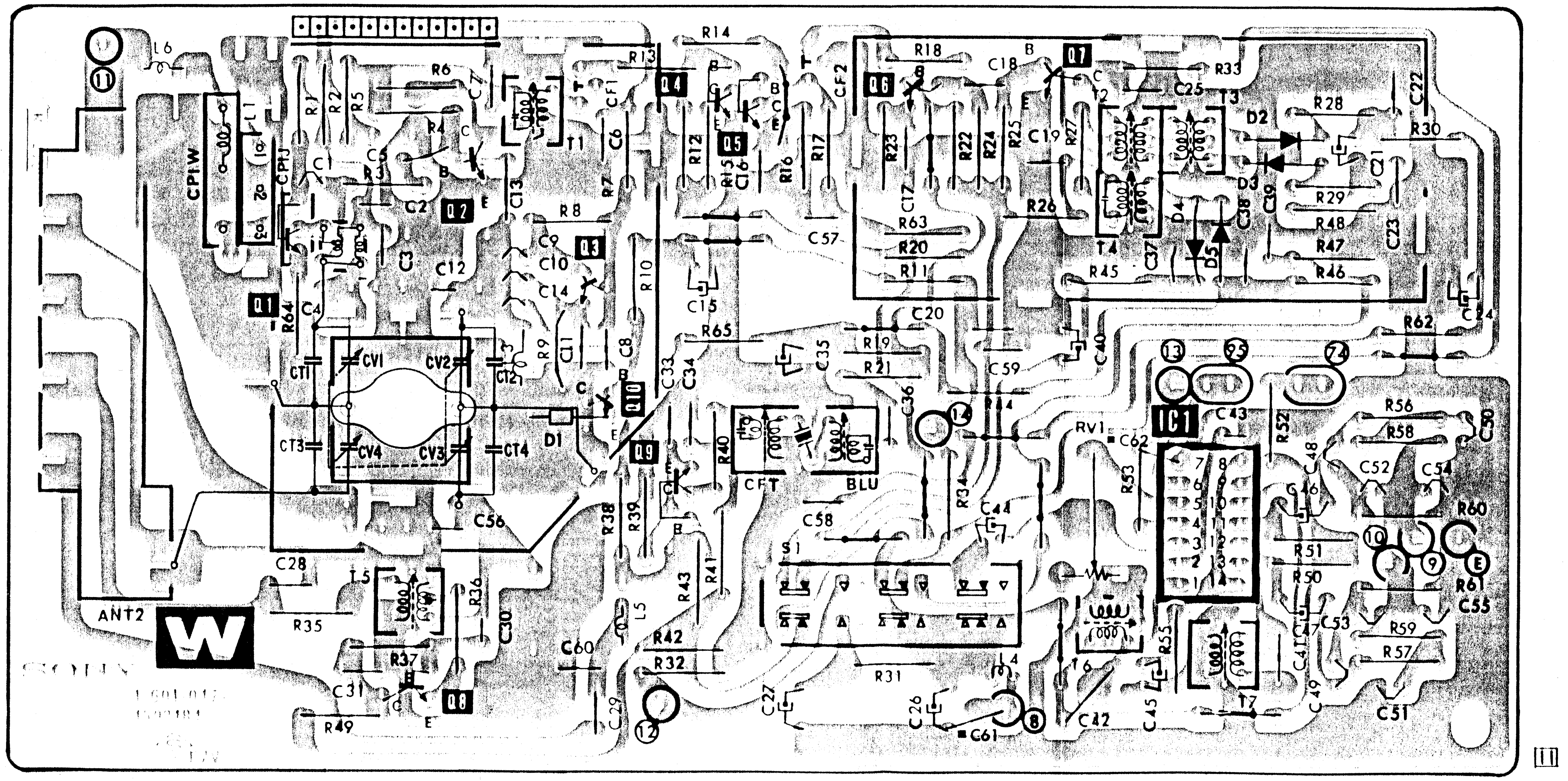
A B C D E F G H

MOUNTING DIAGRAM

W [RADIO]

H5 **HJ** **X2**

	A	B	C	D	E	F	
Q · IC		1 2 8	3 4 5 10 9	6	7 IC1		Q · IC
D			1		4 5 3 2		D
ADJ					RV1		ADJ



W
ANT2
L6
CP1W
CP1J
L1
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
IC1
CV1
CV2
CV3
CV4
CT1
CT2
CT3
CT4
D1
D2
D3
D4
D5
T1
T2
T3
T4
T5
T6
T7
CF1
CF2
CFT
BLU
S1
RV1
L4
L5
R1
R2
R3
R4
R5
R6
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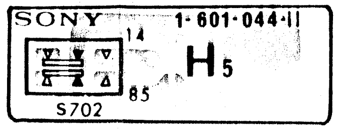
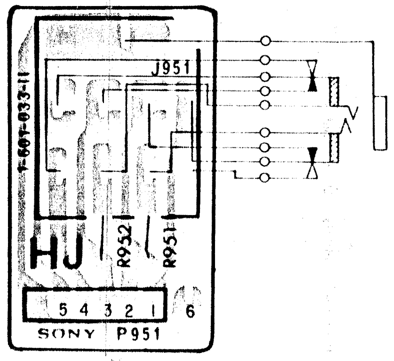
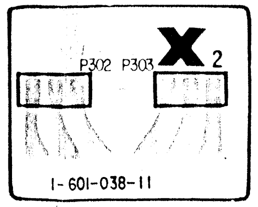
Ⓔ
[11]



SONY
1-601-044-11
H5
S702
14
85



1-601-033-11
J951
HJ
R952
R951
5 4 3 2 1
6
SONY P951

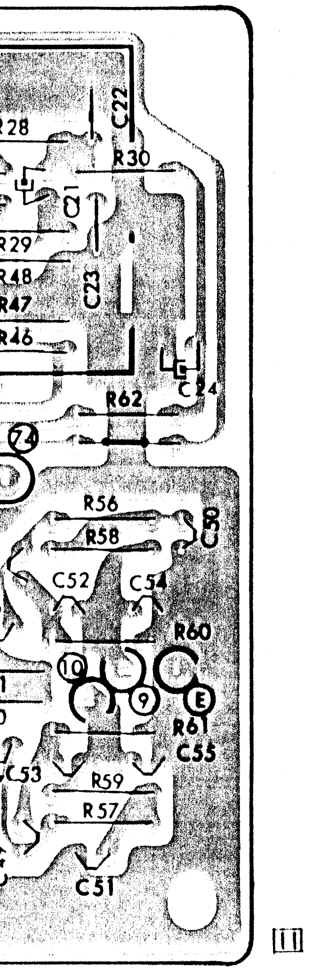


P302 P303
X2
1-601-038-11

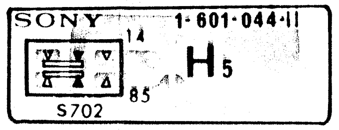
Q
·
IC

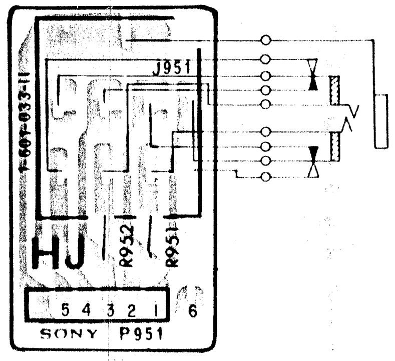
D

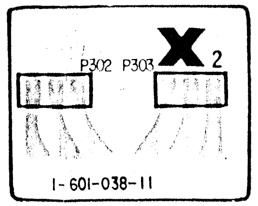
ADJ


C22
28
R30
Q1
R29
R48
R47
R46
C23
R62
C24
74
R56
R58
C52
C54
R60
10
9
E
R61
C55
C53
R59
R57
C51
[1]

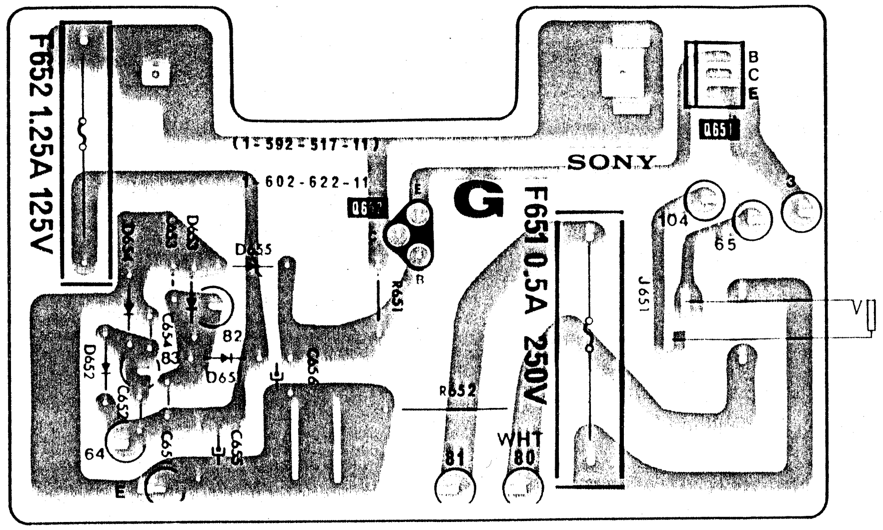
H5 **HJ** **X2**

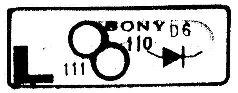

SONY
1-601-044-11
14
85
H5
S702


J951
1-601-033-11
HJ
R952
R951
5 4 3 2 1
6
SONY
P951


P302
P303
X2
1-601-038-11

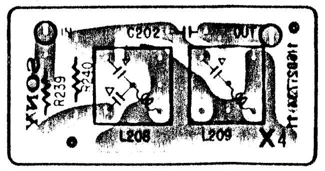
G [POWER] **L** **X4**


F652 1.25A 125V
(1-592-517-11)
1-602-622-11
Q652
SONY
G
F651 0.5A 250V
Q651
B
C
E
D655
D652
C654
82
83
C652
D651
C656
C655
R652
R651
J651
104
65
3
64
E
81
WHT
80


SONY
D6
110
111
L

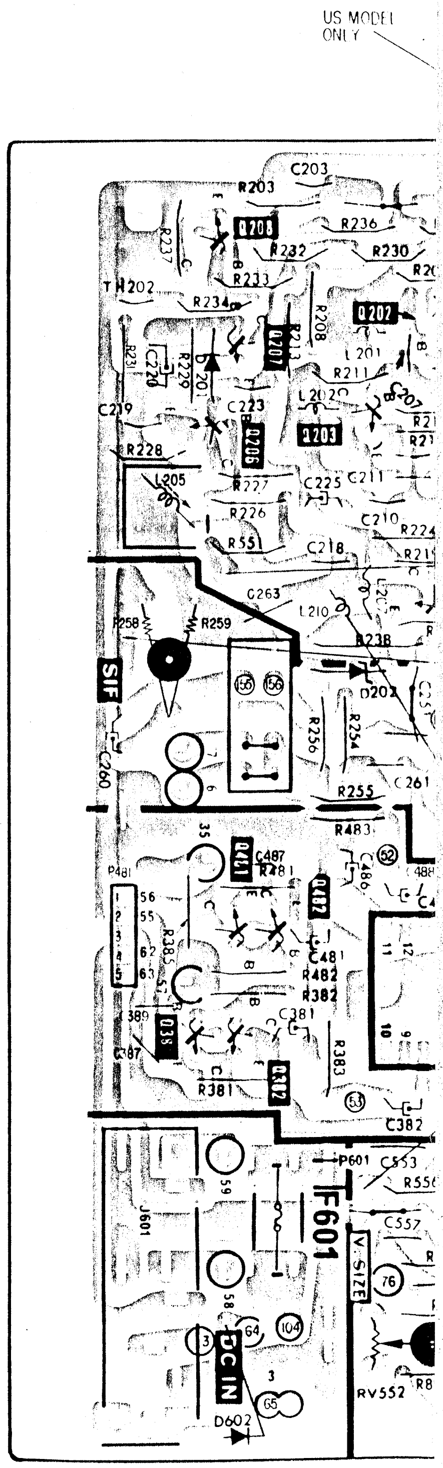
1-601-034-11

(Canadian model only)


C202
OUT
SONY
R239
L208
L209
X4

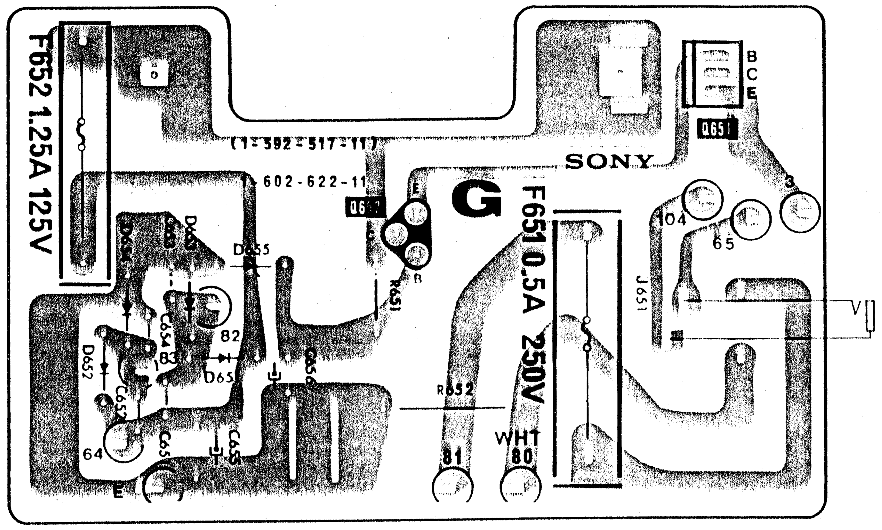
A [TV, VIF, SIF, AUDIO
VIDEO, VER HOR
DEFIECTION POWER]

Q · IC	D	ADJ
		RV153
153 201 152		
208		
151		
202		RV201
207	201	
		RV152
203·204 206		
IC151		
	802	RV151
205	801	RV601
551 801 IC251	202	
602 601	601	
481 251 482 802	852	
IC381		
	803	
381 382 803	851·804	
554	553·853	
	551	
501		
552 555 553	552	
		RV552
	602	
Q, IC	D	ADJ


US MODEL ONLY
R203
C203
Q201
R236
R237
R232
R230
R233
TH202
R234
Q202
R208
R229
Q207
L201
R211
C219
C223
L202
R228
Q206
Q203
L205
R227
C225
C211
R226
C210
R224
R551
C218
R219
C263
L210
R258
R259
SIF
R238
D202
R256
R254
C260
R255
C261
R483
P481
C487
R481
Q481
C481
R482
R382
C381
R383
R381
C382
J601
P601
C553
R550
F601
C557
V. SIZE
DC IN
D602
RV552
76
104

I J K L M N O P Q

G [POWER] **L** **X4**


F652 1.25A 125V
F651 0.5A 250V
SONY
G
(1-592-517-11)
602-622-11
Q651
Q652
D651
D652
D653
D654
D655
C651
C652
C653
C654
C655
C656
R651
R652
J651
B
C
E
WHT
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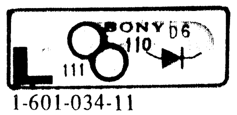
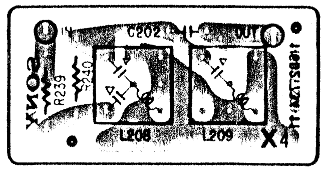
82
83
64
65
104
3
E
V


L
SONY
D6
110
111

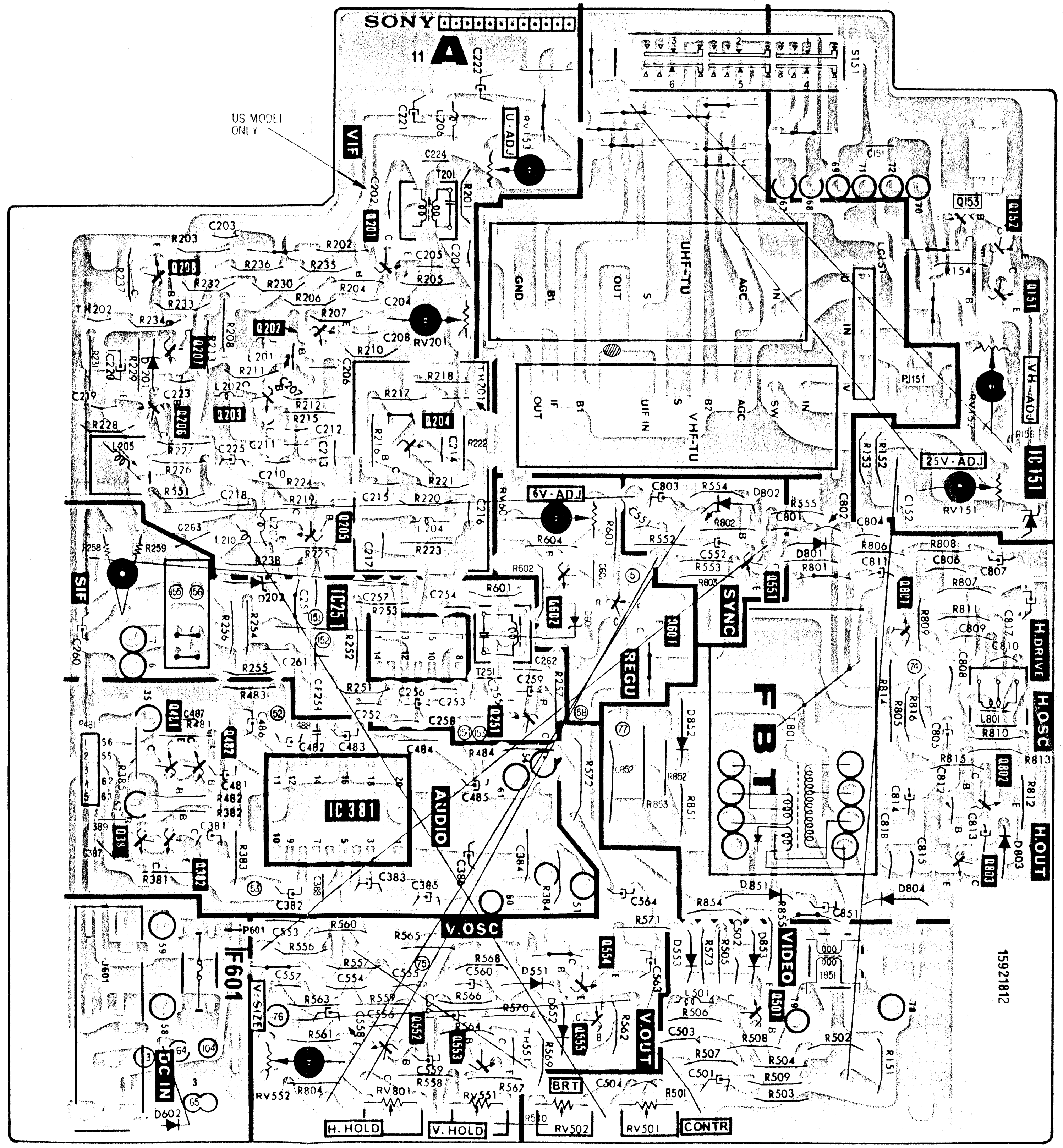
1-601-034-11

(Canadian model only)

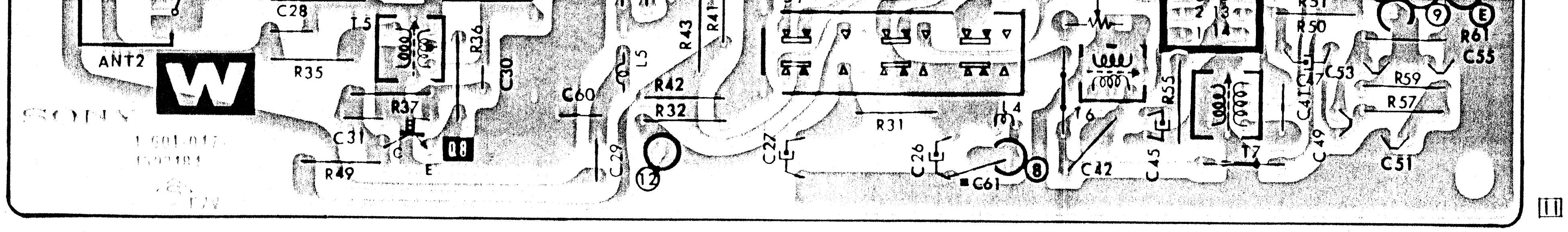

SONY
X4
C802
IN
OUT
L208
L209
R239

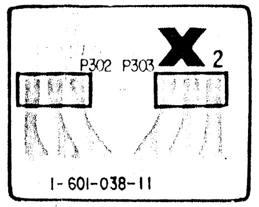
A [TV, VIF, SIF, AUDIO VIDEO, VER HOR DEFIECTION POWER]

Q · IC	D	ADJ
		RV153
153 201 152		
208		
151		
		RV201
202		
207	201	
		RV152
203204 206		
IC151		
	802	RV151
		RV601
205	801	
551 801 IC251	202	
602	601	
601		
481 251 482	852	
802		
IC381		
	803	
381 382 803	851·804	
554	553·853	
	551	
501		
552 555	552	
553		
		RV552
	602	
Q, IC	D	ADJ


SONY
A
11
US MODEL ONLY
VIF
U·ADJ
RV153
UHF-TU
VHF-TU
GND
B1
OUT
AGC
IN
IF
UIF IN
SW
S151
PJ151
Q153
Q152
Q151
VH·ADJ
IC151
25V·ADJ
RV151
RV152
RV201
6V·ADJ
RV601
SIF
IC251
REGU
SYNC
FBT
H.DRIVE
H.OSC
H.OUT
AUDIO
IC381
V.OSC
F601
V.SIZE
DC IN
VIDEO
V.OUT
BRT
CONTR
H. HOLD
V. HOLD
RV552
RV801
RV551
RV502
RV501
Q201
Q202
Q203
Q204
Q205
Q206
Q207
Q208
Q381
Q382
Q481
Q482
Q501
Q551
Q552
Q553
Q554
Q555
Q601
Q602
Q801
Q802
Q803
T201
T251
L801
J601
P481
P601
D601
D602
D801
D802
D803
D804
D851
D852
D853
1592181 2

1
2
3
4
5


W
ANT2
C28
L5
R35
R36
C30
R43
R41
L5
R42
R32
C60
R37
C31
Q8
E
R49
C29
12
C27
R31
C26
C61
8
C42
C45
R55
R50
C53
C47
C41
R59
R57
C49
C51
R61
C55
9
E
[II]


X2
P302
P303
1-601-038-11

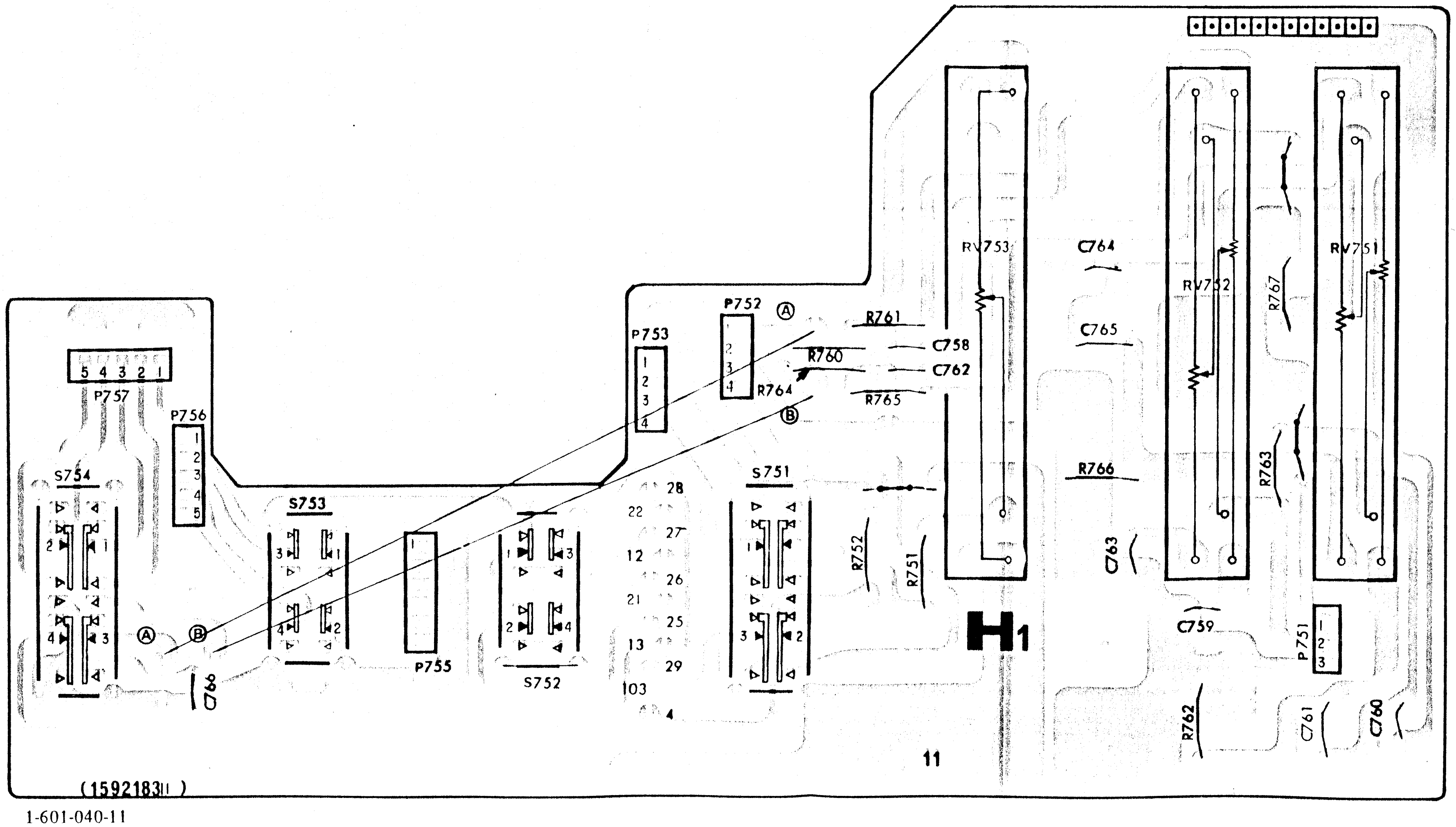
5

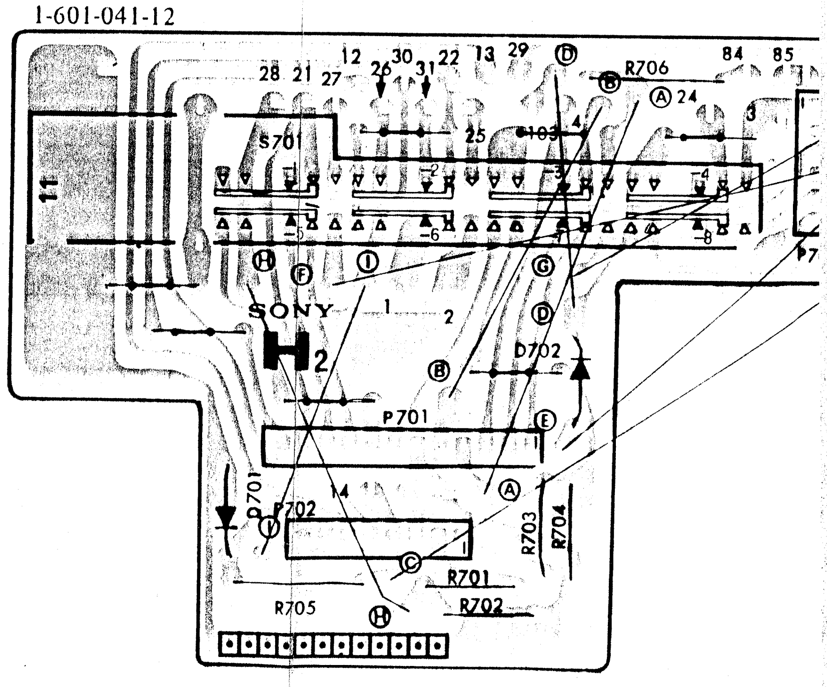
6

H1 [MIXING]

H2 **V**

7

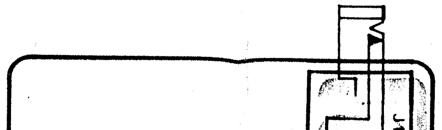

P757
5 4 3 2 1
P756
S754
S753
P755
S752
S751
P753
P752
R761
R760
R764
C758
C762
R765
RV753
C764
C765
RV752
RV751
R767
R766
R763
C763
R752
R751
C759
P751
R762
C761
C760
C766
H1
11
(1592183)
1-601-040-11

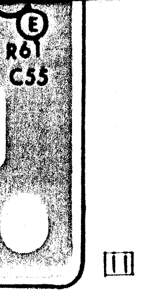

1-601-041-12
S701
R706
SONY
H2
D702
P701
D701
P702
R701
R702
R703
R704
R705

8

9

10





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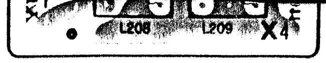
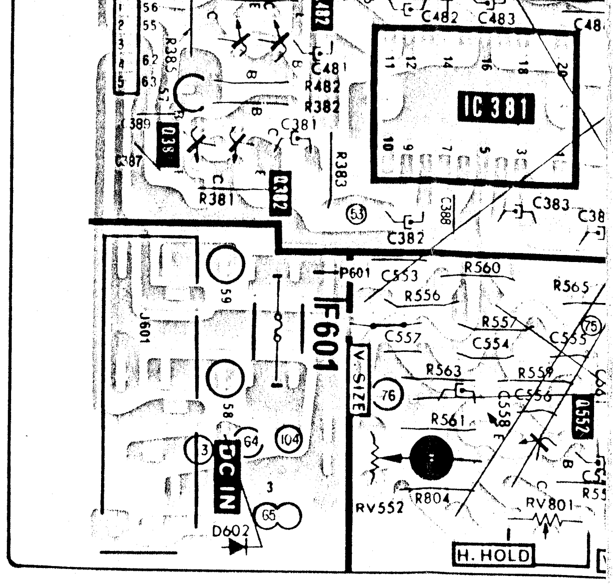

L208
L209
X4

Q , IC	D	ADJ
482 802		
IC381	803	
381 382 803	851·804	
554	553·853	
	551	
501 552 555 553	552	
		RV552
	602	


IC381
F601
V.SIZE
DC IN
J601
D602
H. HOLD
RV552
R804
RV801
R560
R565
R556
R557
C557
C554
R563
R561
C558
C556
C553
P601
C482
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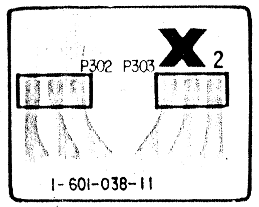
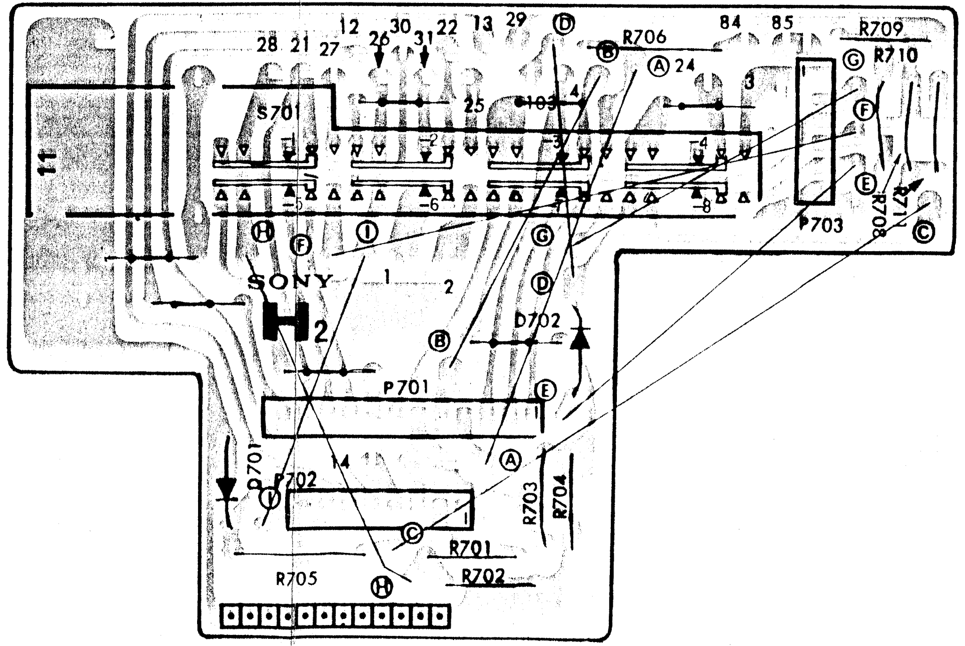
C381
R381
R383
C382
C383
C388

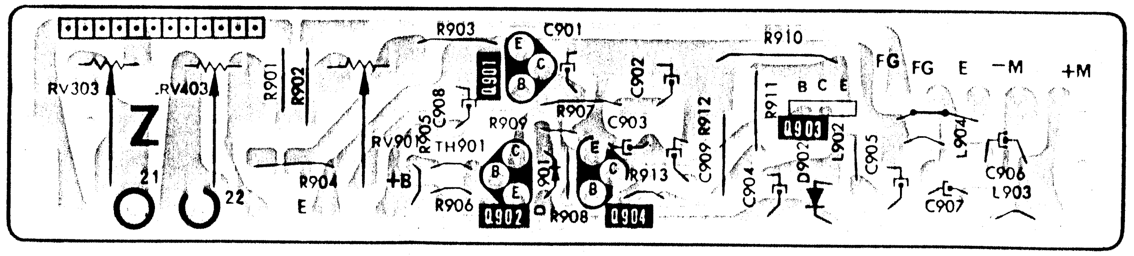

P302
P303
X2
1-601-038-11

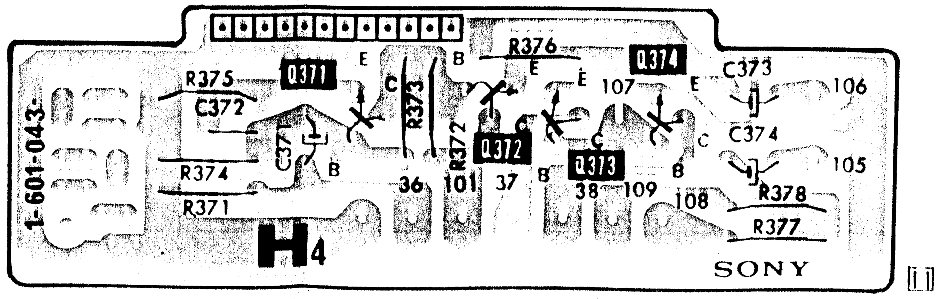
H2 V

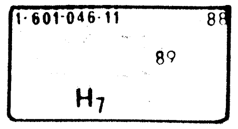
Z [MOTOR DRIVE] H4 H7 H6 X1

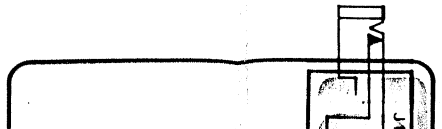
1-601-041-12


S701
SONY
H2
P701
P702
P703
D701
D702
R701
R702
R703
R704
R705
R706
R708
R709
R710
D103

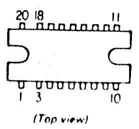

Z
RV303
RV403
R901
R902
R903
R904
R905
R906
R907
R908
R909
R910
R911
R912
R913
RV901
TH901
C901
C902
C903
C904
C905
C906
C907
C908
C909
Q901
Q902
Q903
Q904
D901
D902
L902
L903
L904
FG
E
−M
+M
+B


1-601-043-
H4
SONY
Q371
Q372
Q373
Q374
R371
R372
R373
R374
R375
R376
R377
R378
C371
C372
C373
C374

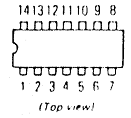

1-601-046-11
88
89
H7



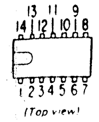
LA4125



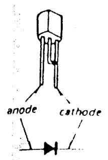
LA3301



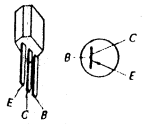
SN7668N



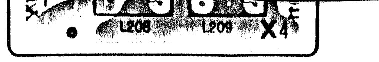
µPC574J


anode
cathode

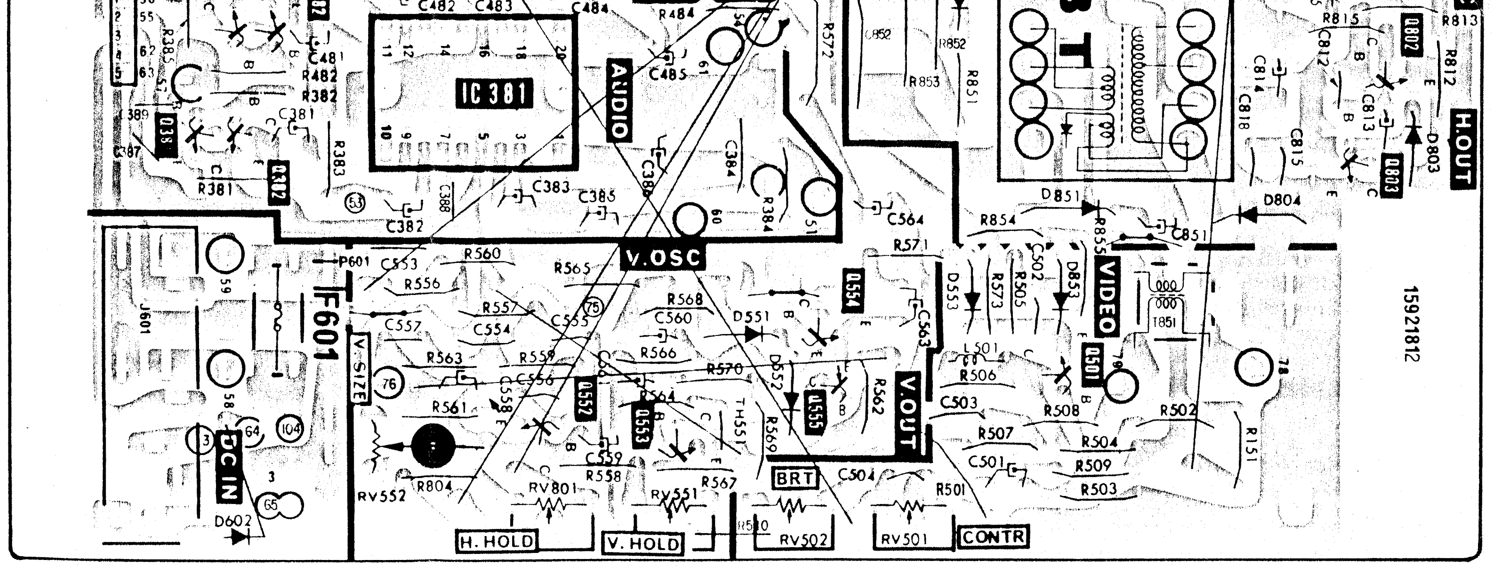
2SA678
2SA1027R



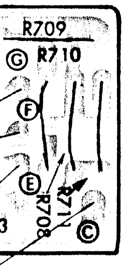
1-601-034-11

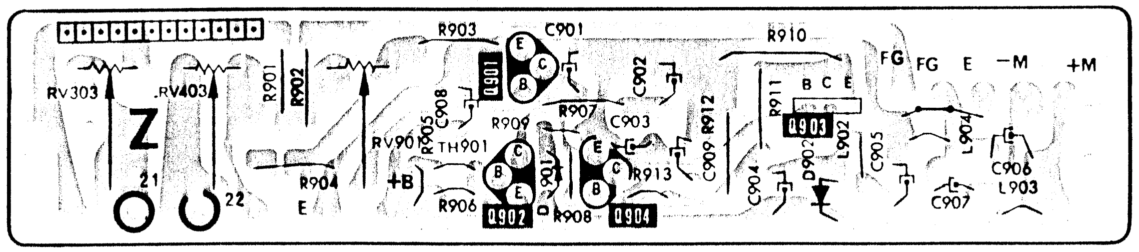

L208
L209
X4

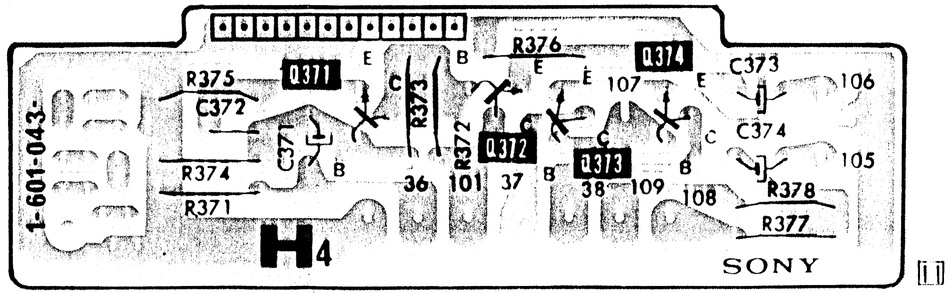
Q, IC	D	ADJ
482		
802		
IC381		
	803	
381 382 803	851·804	
554	553·853	
	551	
501		
552 555 553	552	
		RV552
	602	

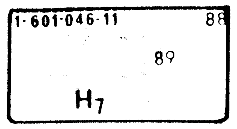

IC381
AUDIO
V.OSC
VIDEO
H.OUT
V.OUT
V.SIZE
DC IN
IF601
J601
H. HOLD
V. HOLD
BRT
CONTR
RV552
RV801
RV551
RV502
RV501
D602
D804
D851
15921812

Z [MOTOR DRIVE] **H4** **H7** **H6** **X1**

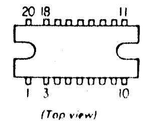

R709
R710
R708
R711


Z
RV303
RV403
R901
R902
R903
C901
Q901
C902
R910
FG
FG
E
−M
+M
R911
Q903
R912
R909
R907
C903
TH901
RV901
R905
C908
Q902
Q904
R904
R906
R908
R913
C909
C904
C905
D901
L902
C906
C907
L903
L904
+B
E
21
22

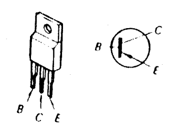

1-601-043-
R375
Q371
C372
R374
R371
R373
R372
Q372
Q373
R376
Q374
C373
C374
R378
R377
36
101
37
38
109
108
107
106
105
H4
SONY


1-601-046-11
88
89
H7

LA4125


20
18
11
1
3
10
(Top view)

2SA861



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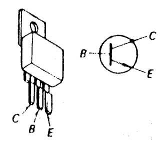
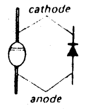
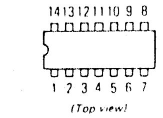


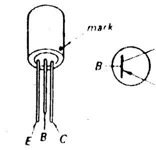
V06C
V09C
U05G
GH3F


cathode
anode

LA3301


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

2SB475
2SB324



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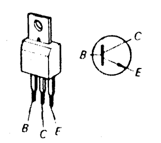
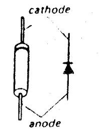
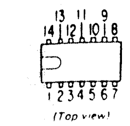


1T261
1T22A
1T22AM
RD4.3E
RD5.6E-B
RD5.6E-B2Z
1S1555


cathode
anode

SN7668N


13 11 9
14 12 10 8
1 2 3 4 5 6 7
(Top view)

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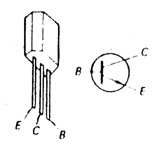
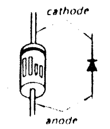
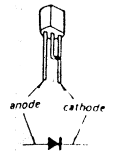
2SC631A
2SC634A



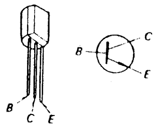
EQB01-12Z
EQA01-12R


cathode
anode

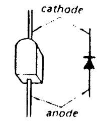
µPC574J


anode
cathode

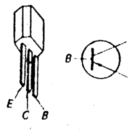
2SC710-13
2SC710-14
2SC710-15



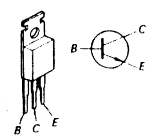
HF1A
HF1B
HF1Z
HF1C


cathode
anode

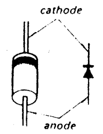
2SA678
2SA1027R



2SC1061



S2V10


cathode
anode

6

H1 [MIXING]

H2 V

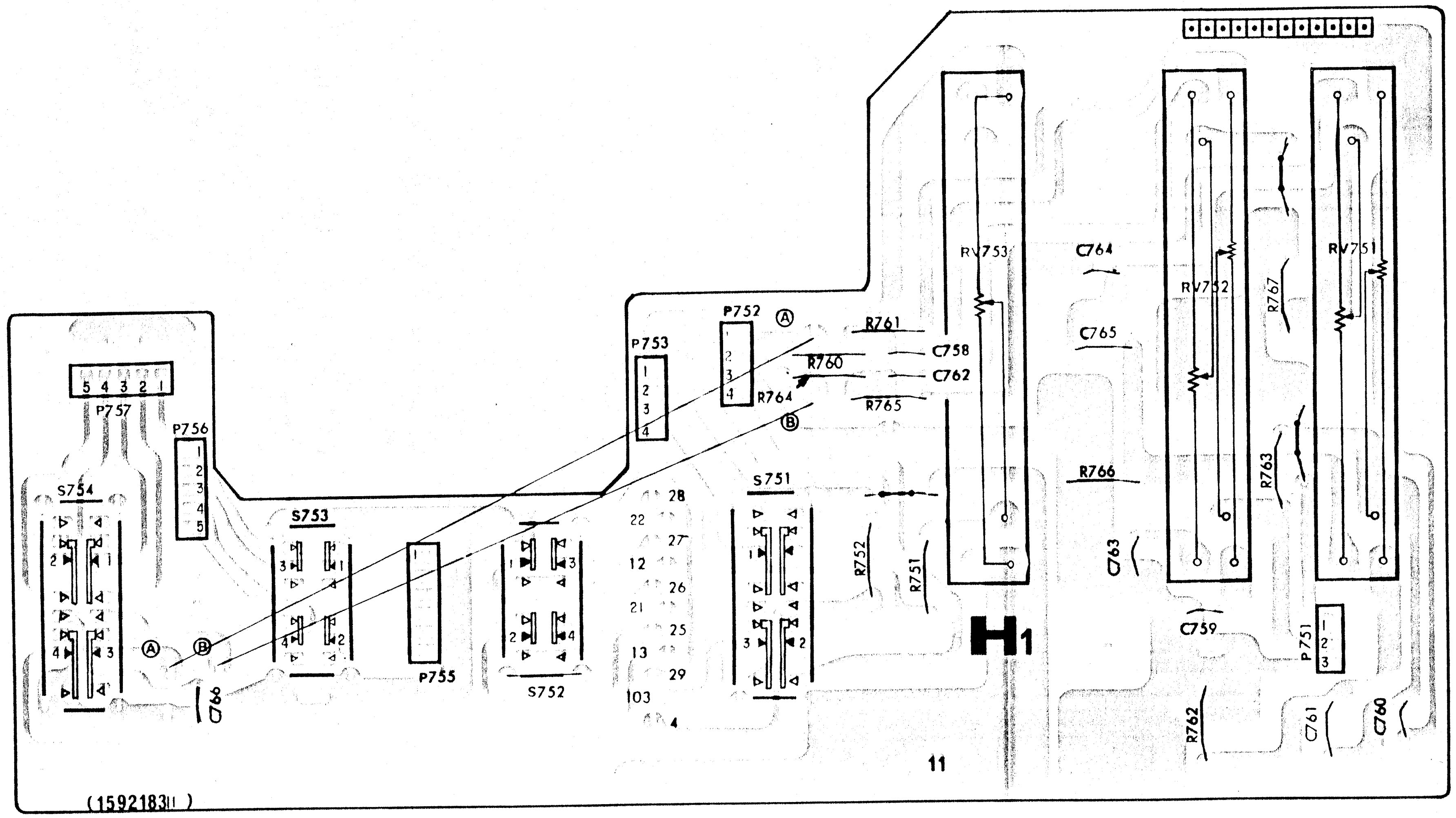
7

8

9

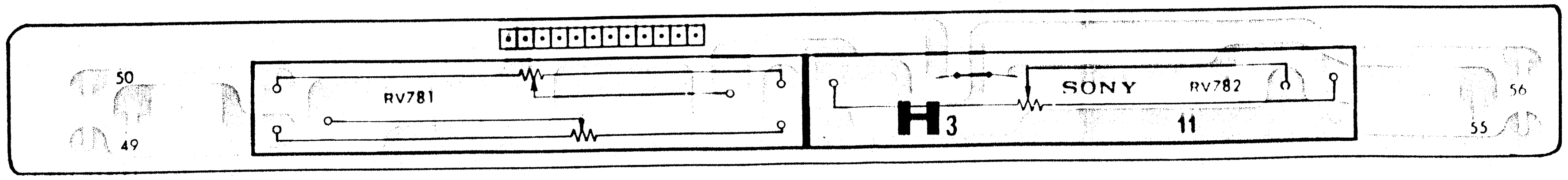
10

11



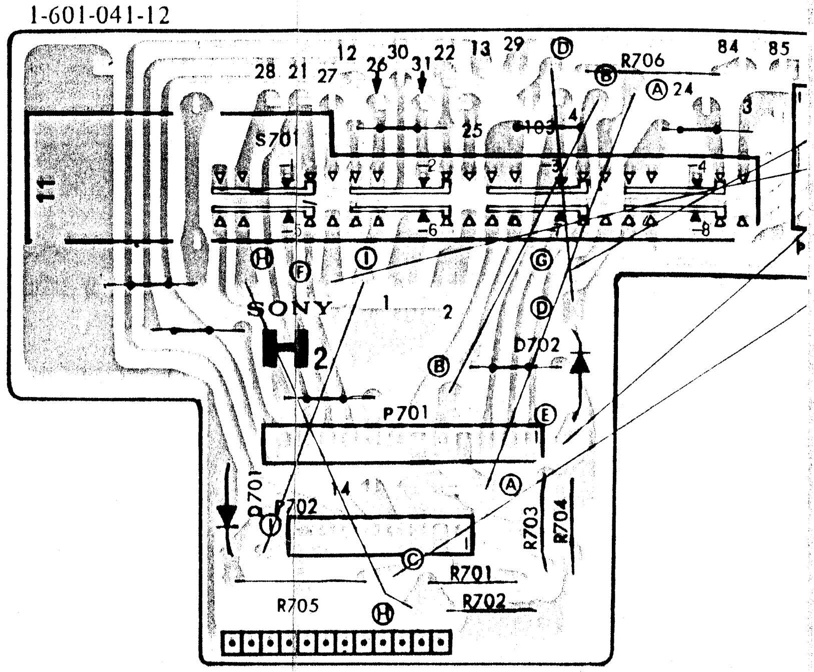
P757
5 4 3 2 1
P756
S754
S753
P755
S752
S751
P753
P752
R761
R760
R764
R765
C758
C762
RV753
C764
C765
R766
C763
RV752
R767
R763
RV751
R752
R751
C759
P751
R762
C761
C760
C766
H1
11
(1592183 11)

1-601-040-11

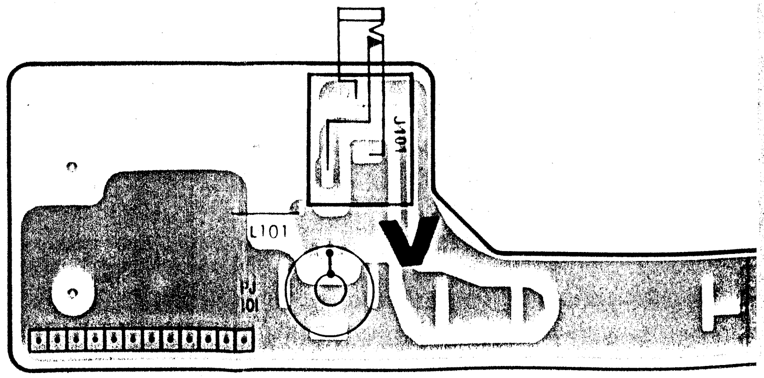


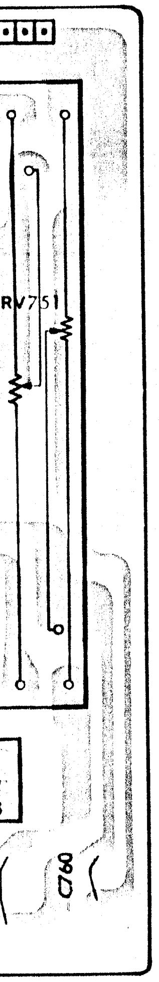
RV781
SONY
RV782
H3
11
50
49
56
55

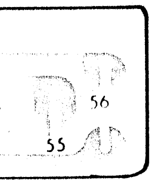
1-601-042-11



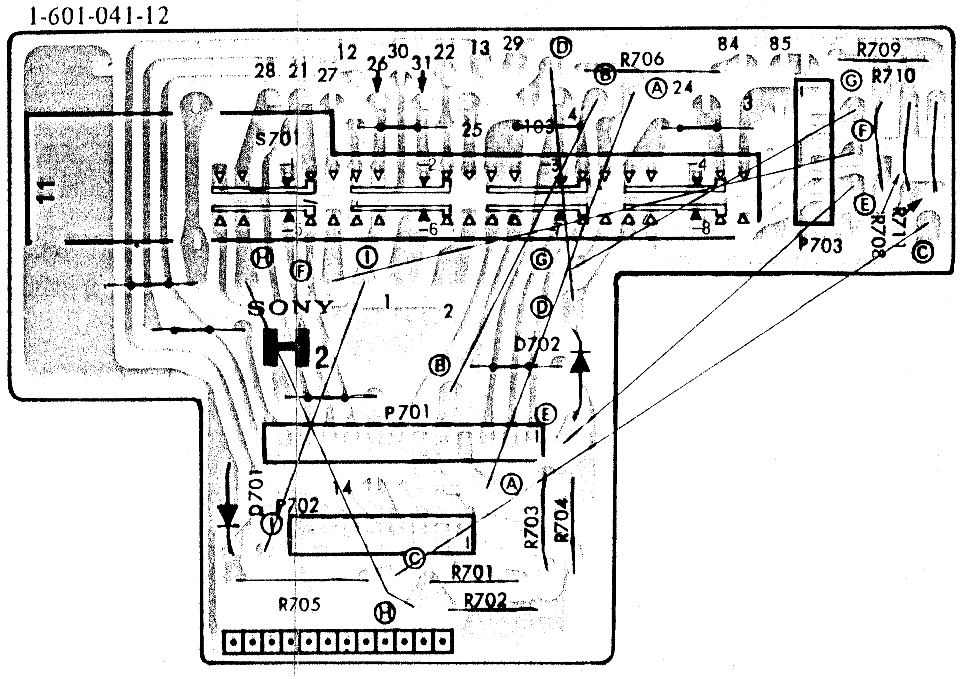
1-601-041-12
S701
R706
SONY
H2
D702
P701
P702
D701
R703
R704
R701
R702
R705
11







H2 V


1-601-041-12
28 21 27 12 26 30 31 22 13 29
84 85
R706
R709
R710
24
S701
25
103
P703
R708
R711
SONY
H2
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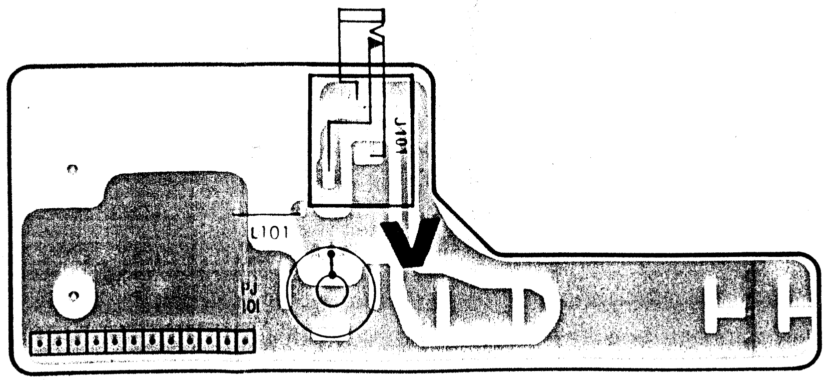
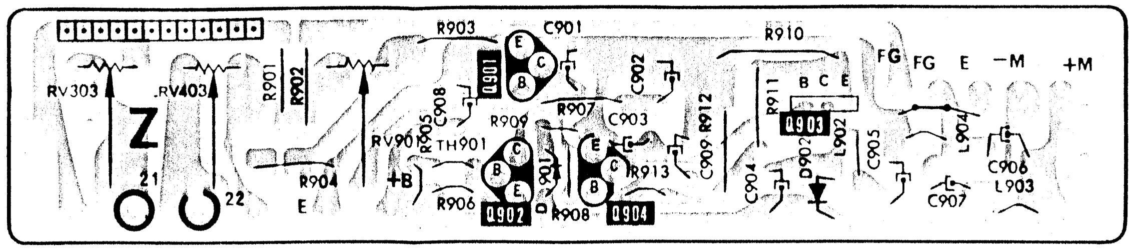
R703
R704
R701
R702
R705
14


J101
L101
PJ101
V

Z [MOTOR DRIVE] H4 H7 H6 X1


RV303
RV403
Z
21
22
R901
R902
R903
C901
Q901
C908
R905
RV901
TH901
R904
R906
Q902
R907
C902
R909
C903
D901
R908
Q904
R913
C909
R912
R910
R911
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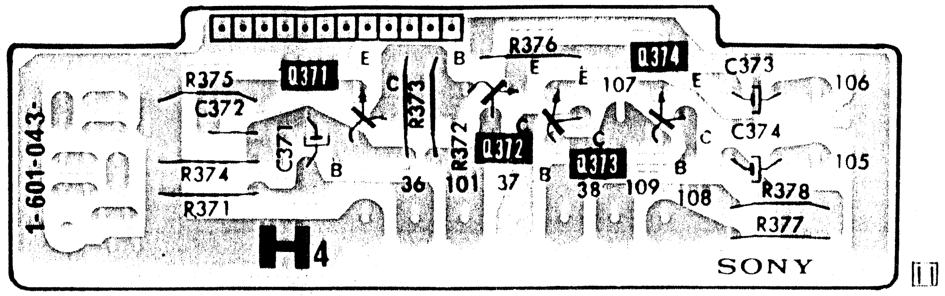
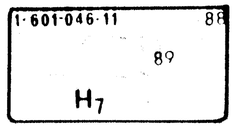
FG E −M +M
B C E
+B
E


1-601-043-
R375
Q371
C372
R374
R371
C371
R373
R372
Q372
R376
Q374
Q373
C373
C374
107
106
105
36 101 37 38 109 108
R378
R377
H4
SONY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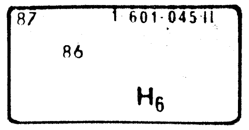
88
89
H7


87
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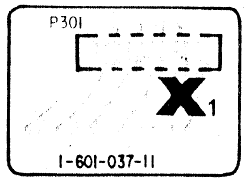
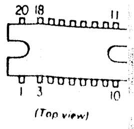
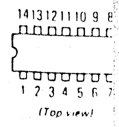
86
H6


P301
X1
1-601-037-11

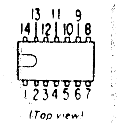
LA4125


20 18 11
1 3 10
(Top view)

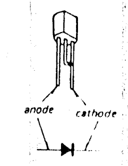
LA3301


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

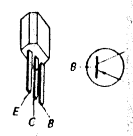
SN7668N


13 11 9
14 12 10 8
1 2 3 4 5 6 7
(Top view)

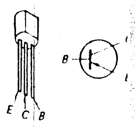
µPC574J


anode
cathode

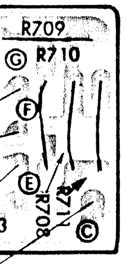
2SA678
2SA1027R

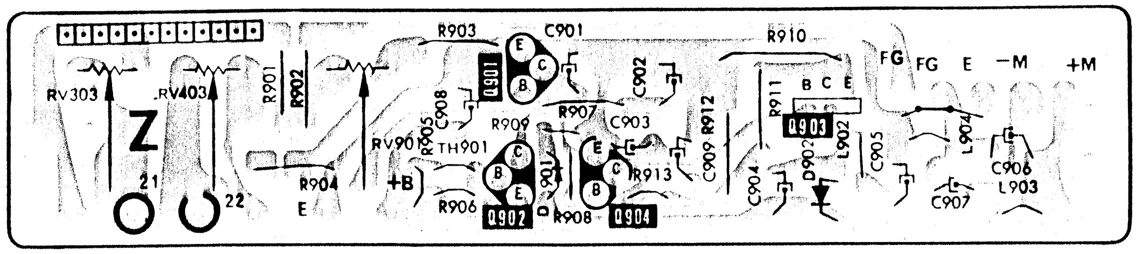


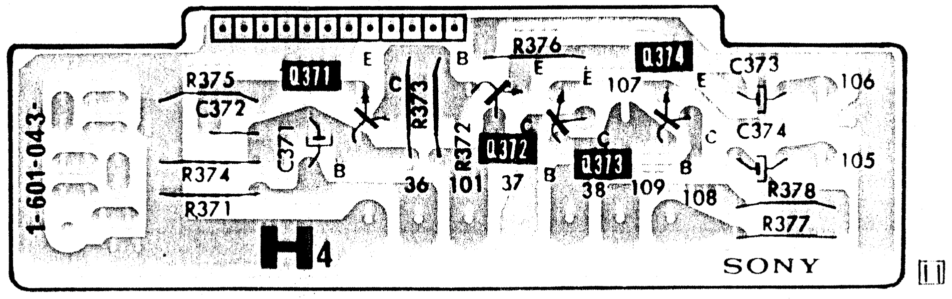
2SA772-23

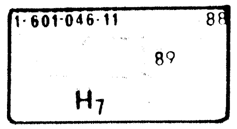


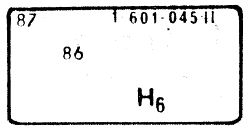
Z [MOTOR DRIVE] **H4** **H7** **H6** **X1**

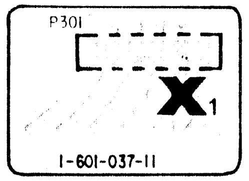

R709
R710
R708
R711


R903
C901
R910
FG
FG
E
−M
+M
RV303
RV403
R901
R902
Q901
C902
Z
RV901
R905
C908
TH901
R909
R907
C903
R912
R911
B C E
Q903
D902
L902
C905
L904
C906
L903
C907
C904
C909
R913
Q902
Q904
R906
R908
D901
R904
E
+B
21
22

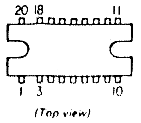

1-601-043-
R375
Q371
C372
R376
Q374
C373
106
E
C
B
E
R373
107
E
R372
Q372
Q373
C
C374
105
C371
R374
B
36
101
37
B
38
109
108
B
R378
R371
R377
H4
SONY


1-601-046-11
88
89
H7

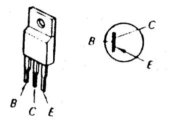

87
1-601-045-11
86
H6


P301
X1
1-601-037-11

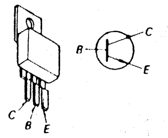
LA4125


20 18 11
1 3 10
(Top view)

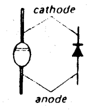
2SA861



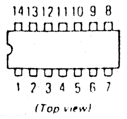
2SC1418



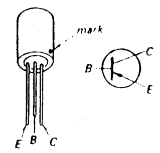
V06C
V09C
U05G
GH3F


cathode
anode

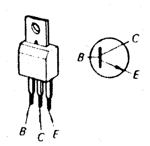
LA3301


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

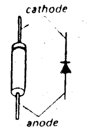
2SB475
2SB324



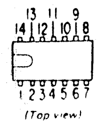
2SC1761



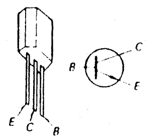
1T261
1T22A
1T22AM
RD4.3E
RD5.6E-B
RD5.6E-B2Z
1S1555


cathode
anode

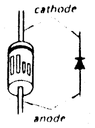
SN7668N


13 11 9
14 12 10 8
1 2 3 4 5 6 7
(Top view)

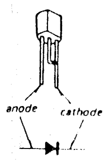
2SC403C
2SC631A
2SC634A



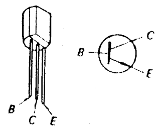
EQB01-12Z
EQA01-12R


cathode
anode

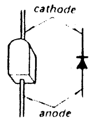
μPC574J


anode
cathode

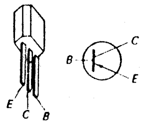
2SC710-13
2SC710-14
2SC710-15



HF1A
HF1B
HF1Z
HF1C


cathode
anode

2SA678
2SA1027R



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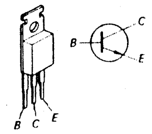
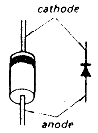
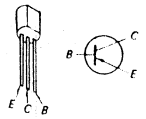


S2V10


cathode
anode

2SA772-23



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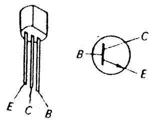
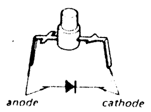
2SC1474
2SC1475
2SC1675



SEL103R


anode
cathode

Sony Corporation

© 1980

80E0450-1
Printed in Japan

SONY
TV-FM/AM RECEIVER
CASSETTE-CORDER

FX-414

US and Canadian Model

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

SCHEMATIC DIAGRAM

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

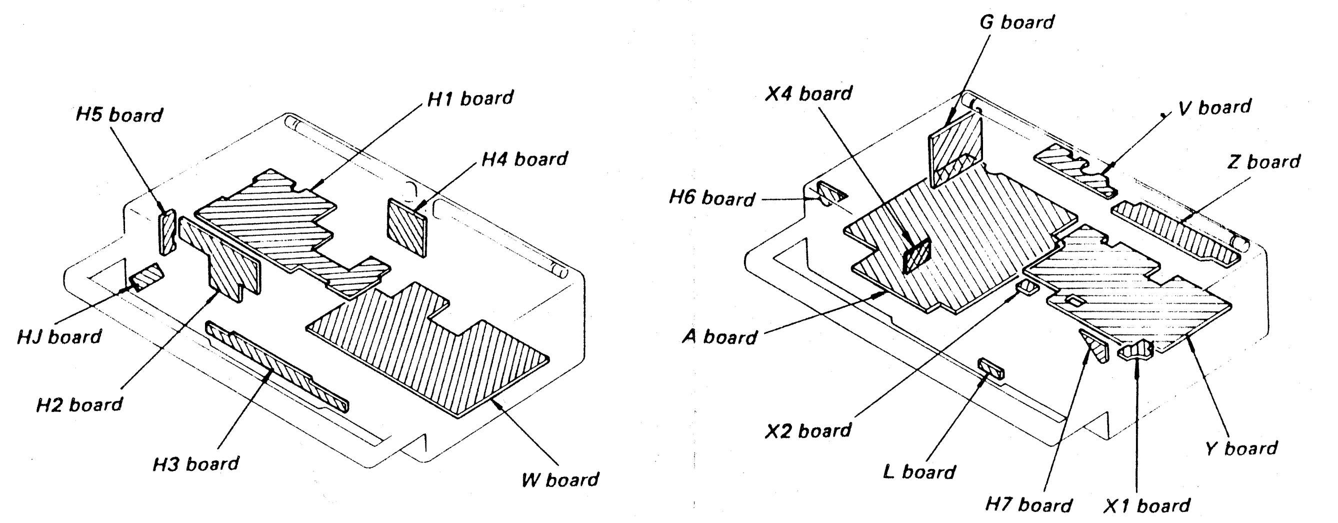
Note:

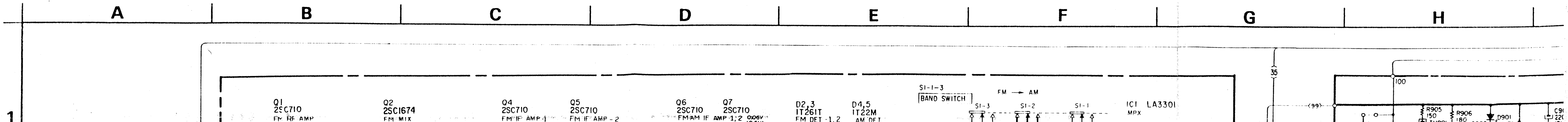
- All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : $\mu\mu F$, elect : electrolytic
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- ※ : selected to yield optimum performance.
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- ━━ : B+ bus.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltages in W board are taken under detuned conditions.
  no mark: FM
  ( ) : AM
- Voltages in Y board are taken under no-signal conditions in playback mode.
  ¦ ¦ : record mode
- Voltages in A board are taken under tuned conditions with CONTR and BRIGHT controls set for best picture.
  ( ) : detuned conditions
- Voltage variations may be noted due to normal production tolerances.

CAUTION

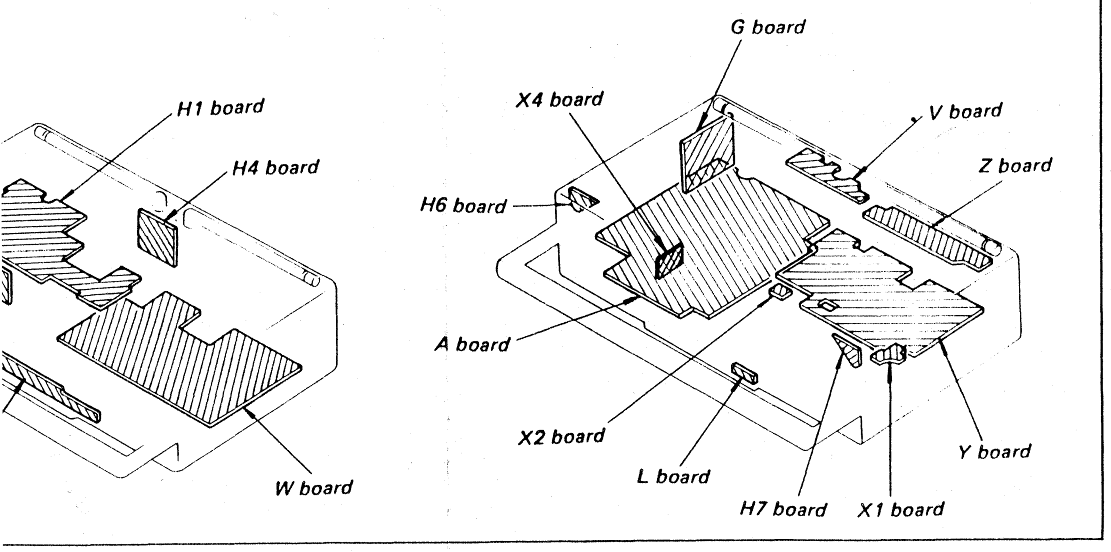
- Avoid rubbing the inked surface.
- Do not allow the paper to contact hot power resistor, soldering irons, etc.

CIRCUIT BOARDS LOCATION


G board
H5 board
H1 board
X4 board
V board
H4 board
Z board
H6 board
HJ board
A board
H2 board
X2 board
Y board
H3 board
W board
L board
H7 board
X1 board


A
B
C
D
E
F
G
H
1
Q1
2SC710
FM RF AMP
Q2
2SC1674
FM MIX
Q4
2SC710
FM IF AMP-1
Q5
2SC710
FM IF AMP-2
Q6
2SC710
FM-AM IF AMP-1,2
Q7
2SC710
D2,3
1T261T
FM DET-1,2
D4,5
1T22M
AM DET
S1-1-3
BAND SWITCH
FM → AM
S1-3
S1-2
S1-1
IC1 LA3301
MPX
35
(99)
100
R905
150
R906
180
D901

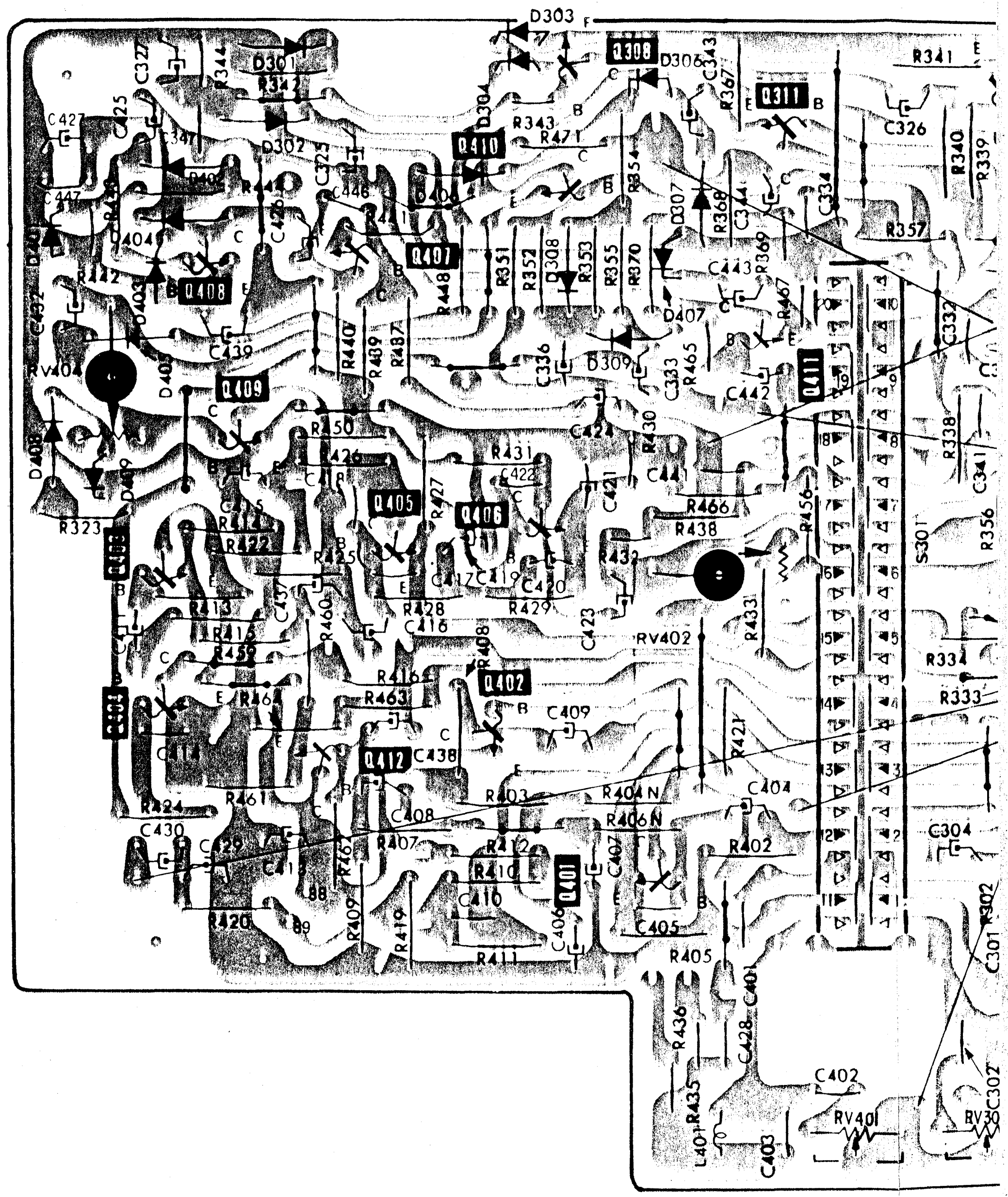
CIRCUIT BOARDS LOCATION


G board
H1 board
X4 board
V board
H4 board
Z board
H6 board
A board
X2 board
L board
Y board
W board
H7 board
X1 board

MOUNTING DIAGRAM

Y [TAPE RECORDER]

	B	C	D
Q	403 408 404 409	407 410 405 406 412 402 401 308	311 411
D	401 402 301 408 404 302 409 403 405	303 306 304 309 406 308 407	307
ADJ	RV404		RV402 RV401 RV301


A
B
C
D
1
2
3
4
5
D303
Q308
D306
C343
R367
Q311
R341
C327
R344
D301
R342
C425
C427
D304
R343
R471
Q410
C326
D302
C325
C446
R354
R340
R339
Q407
R351
R352
R353
D308
R355
R370
D307
R368
C344
C334
R357
C443
R369
R467
Q408
C439
R440
R409
R487
R448
C336
D309
C333
R465
D407
C442
Q411
C332
RV404
D403
Q409
R450
R426
R431
C422
C424
R430
C441
R338
C341
D408
D409
R323
Q405
R427
Q406
C421
R466
R438
R456
R356
S301
R422
R413
C437
R460
R428
C416
C417
C419
C420
R429
R433
C423
RV402
R408
Q402
R416
R463
R334
R333
C409
R421
Q412
C438
R461
R424
C430
C429
C408
R403
R404
R406
C404
R402
C304
R407
R410
C410
Q401
C407
C406
C405
R409
R419
R420
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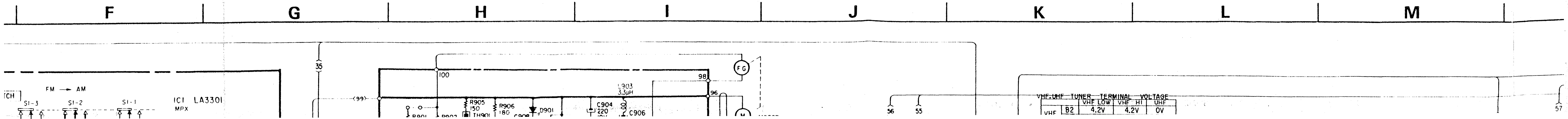
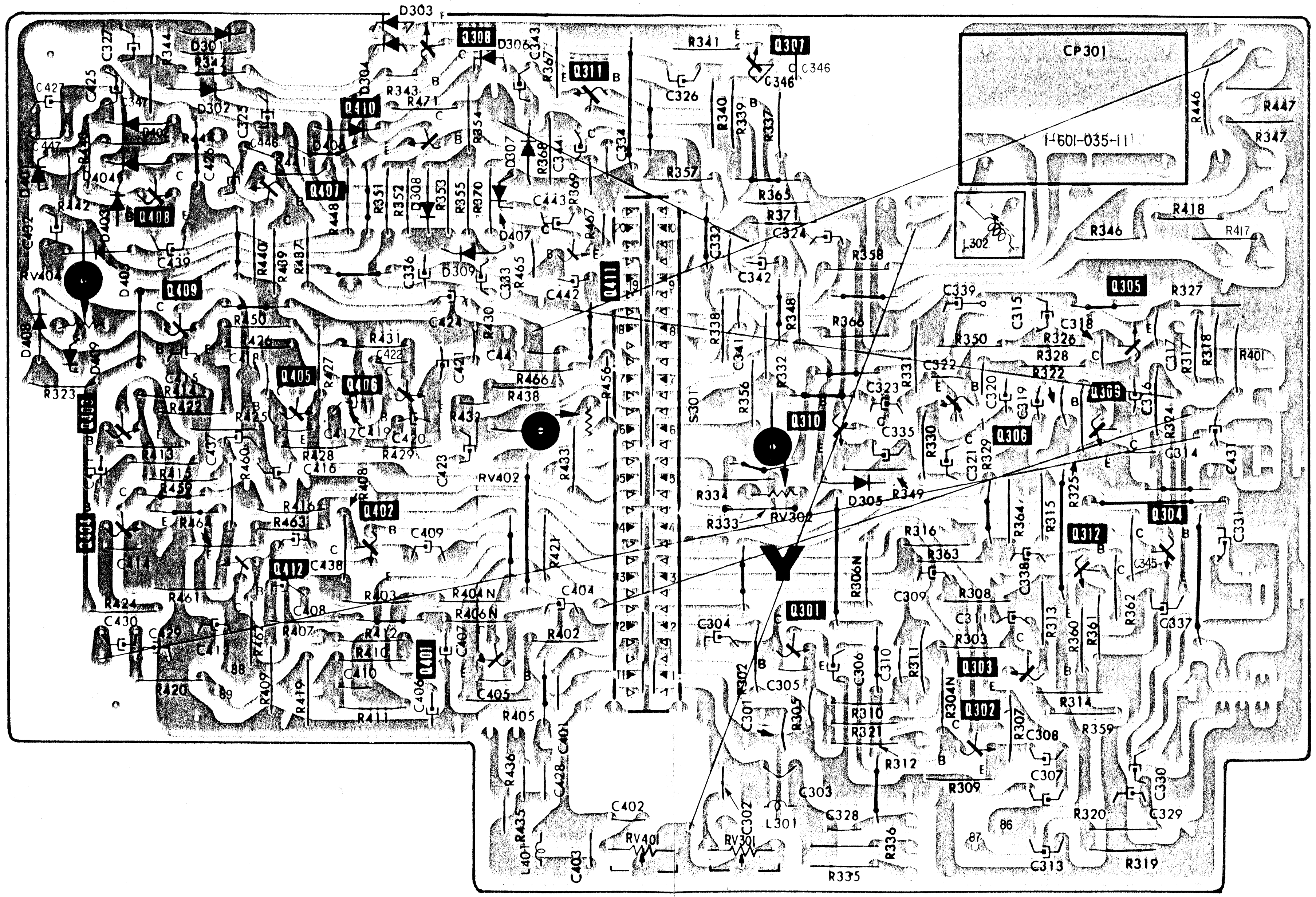
R436
C428
C401
C301
R302
C402
RV401
L401
R435
C403
C307
RV301


F
G
H
I
J
K
L
M
FM → AM
S1-3
S1-2
S1-1
IC1 LA3301
MPX
35
99
100
98
96
FG
M
R905
150
R906
180
TH901
D901
L903
3.3μH
C904
220
C906
56
55
VHF,UHF TUNER TERMINAL VOLTAGE
VHF B2
VHF LOW 4.2V
VHF HI 4.2V
UHF 0V
57

MOUNTING DIAGRAM

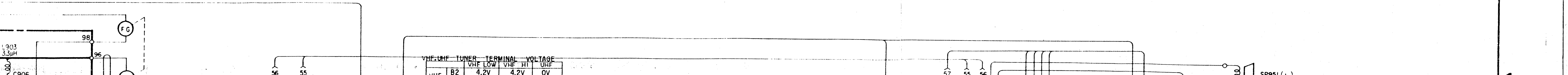
Y [TAPE RECORDER]

	A	B	C	D	E	F	G	
Q		403 408 404 409	407 410 405 406 412 402 401 308	311 411	307 310 301 306 303 302	305 309 304 312		Q
D		401 402 301 408 404 302 409 403 405	303 306 304 309 406 308 407	307	305			D
ADJ		RV404		RV402 RV401 RV301	RV302			ADJ



1
2
3
4
5
CP301
1-601-035-11
L302
S301
Y
Q301 Q302 Q303 Q304 Q305 Q306 Q307 Q308 Q309 Q310 Q311 Q312
Q401 Q402 Q403 Q404 Q405 Q406 Q407 Q408 Q409 Q410 Q411 Q412
D301 D302 D303 D304 D305 D306 D307 D308 D309 D401 D402 D403 D404 D407 D408 D409
RV301 RV302 RV401 RV402 RV404
L301 L401
R341 R340 R339 R337 R357 R365 R371 R358 R366 R338 R348 R332 R356 R331 R330 R329 R350 R328 R326 R322 R327 R317 R318 R401 R346 R418 R417 R446 R447 R347 R324 R325 R315 R364 R316 R363 R308 R313 R360 R361 R362 R303 R314 R359 R312 R309 R320 R319 R310 R321 R304N R307 R311 R306N R305 R302 R301 R336 R335 R334 R333 R349
R343 R471 R354 R368 R369 R351 R352 R353 R355 R370 R448 R409 R487 R440 R450 R426 R427 R431 R466 R438 R456 R433 R465 R430 R429 R428 R425 R460 R422 R413 R415 R452 R408 R416 R463 R464 R461 R424 R403 R404N R406N R407 R410 R412 R402 R405 R409 R419 R411 R420 R421 R436 R435 R437 R323 R344 R342 R344 R442 R467 R345
C327 C425 C427 C447 C426 C325 C446 C439 C432 C436 C437 C434 C430 C429 C417 C438 C408 C409 C416 C419 C420 C421 C422 C423 C424 C441 C442 C443 C333 C336 C344 C343 C334 C326 C346 C324 C342 C341 C339 C315 C318 C322 C323 C320 C319 C321 C335 C316 C317 C314 C431 C331 C345 C338 C337 C309 C304 C305 C306 C310 C308 C307 C330 C329 C313 C303 C328 C302 C301 C402 C403 C401 C428 C404 C405 C406 C407 C410 C411 C412
86 87 88 89

I
J
K
L
M
N
O
P



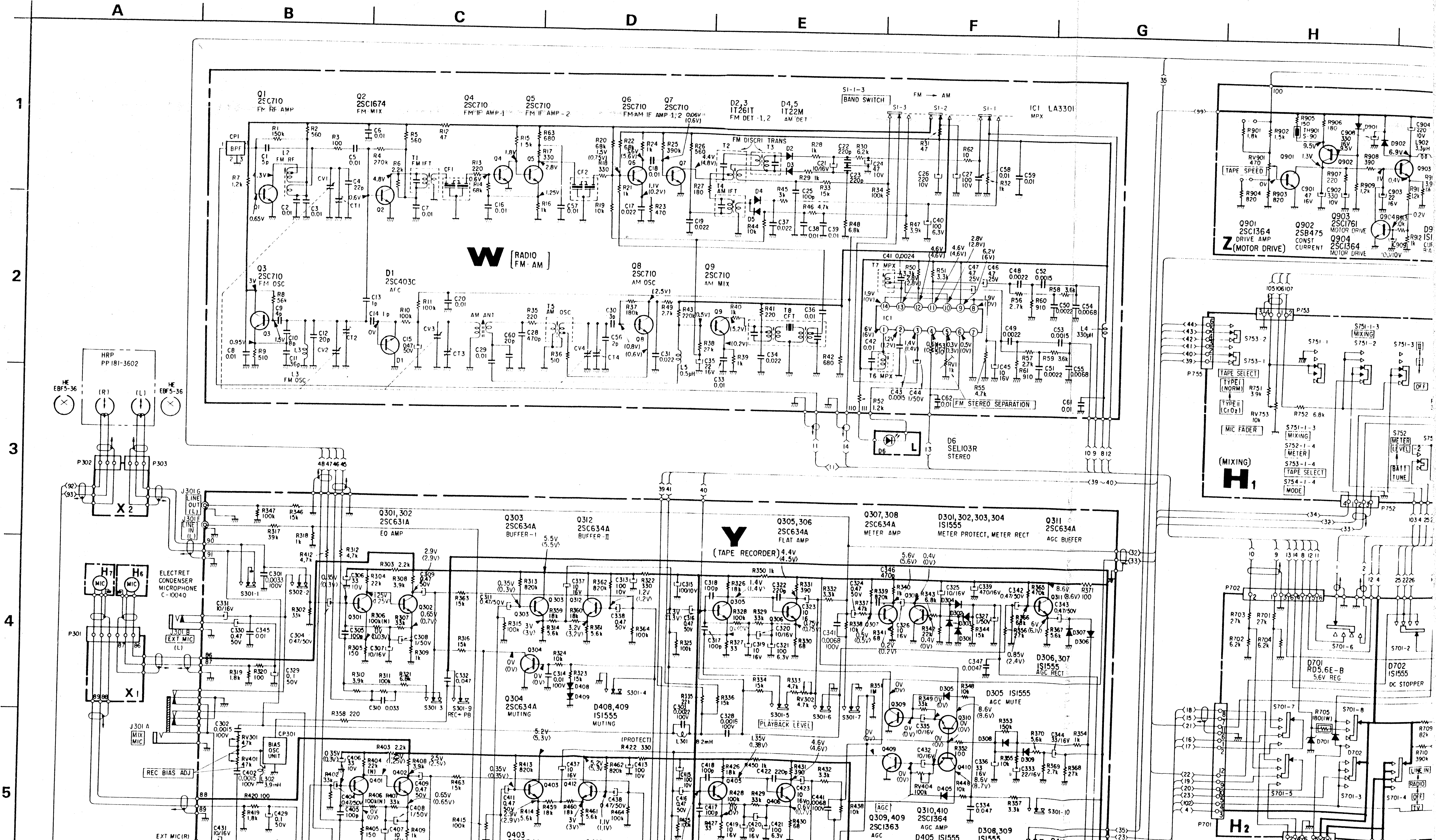
FG
98
96
L903
3.3μH
C906
56 55
VHF·UHF TUNER TERMINAL VOLTAGE
VHF
B2
VHF LOW
4.2V
VHF HI
4.2V
UHF
0V
57 55 56
SP951

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

CAUTION

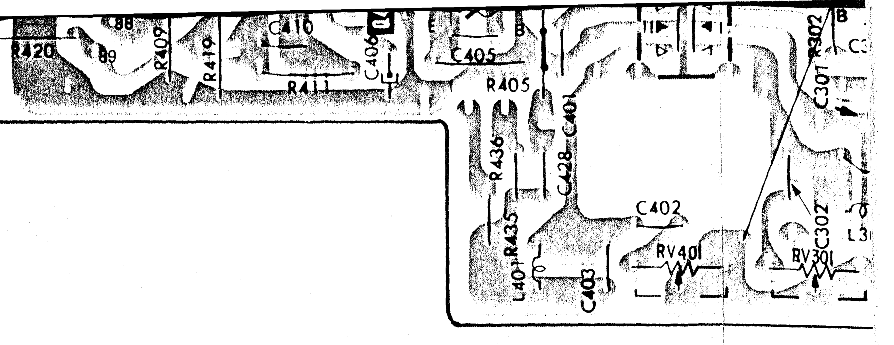
- Avoid rubbing the inked surface.
- Do not allow the paper to contact hot power resistor, soldering irons, etc.

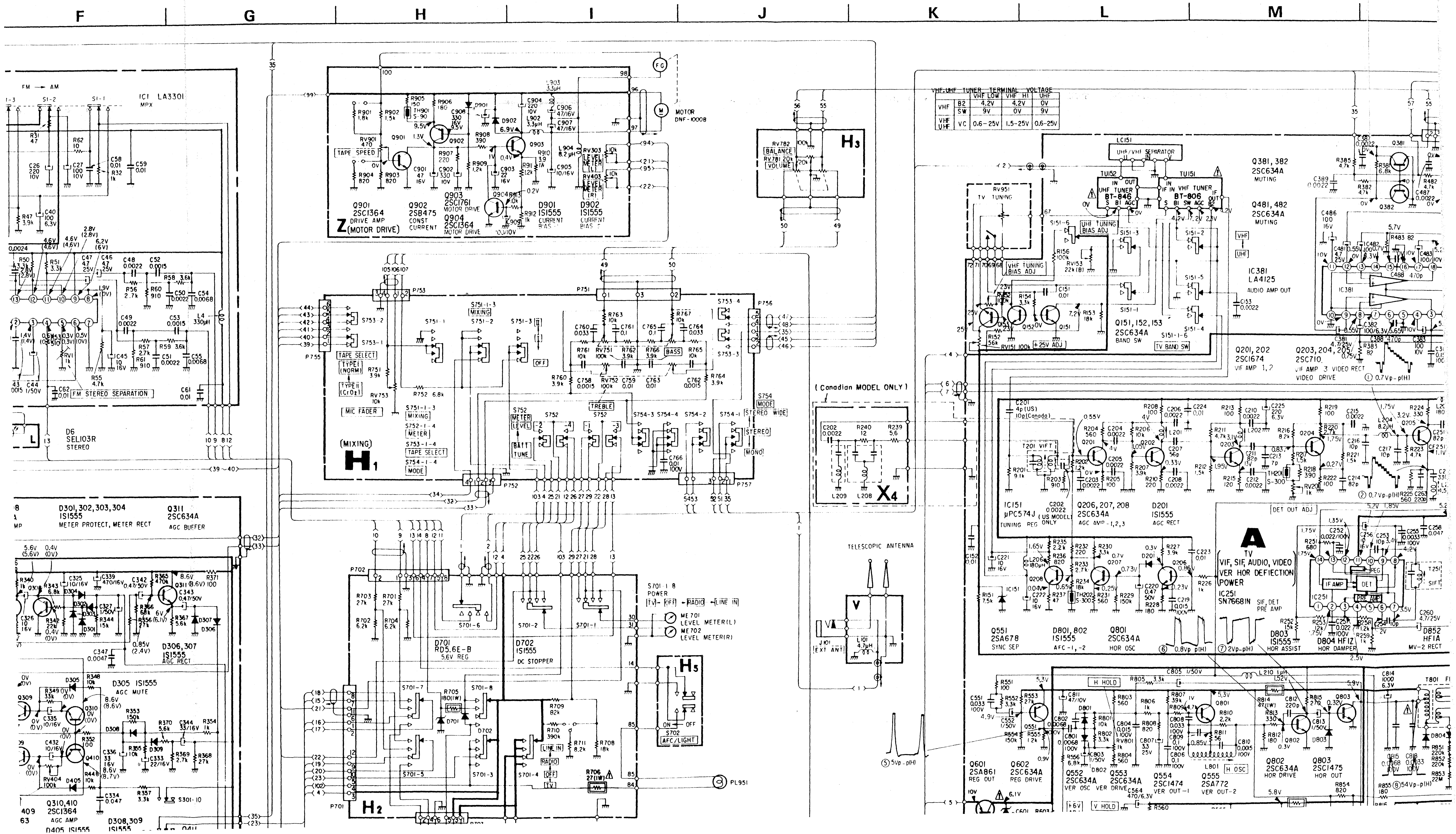


A
B
C
D
E
F
G
H
1
2
3
4
5
W [RADIO FM · AM]
Q1 2SC710 FM RF AMP
Q2 2SC1674 FM MIX
Q4 2SC710 FM IF AMP-1
Q5 2SC710 FM IF AMP-2
Q6 2SC710 FM·AM IF AMP 1, 2
Q7 2SC710
D2, 3 1T261T FM DET-1, 2
D4, 5 1T22M AM DET
S1-1-3 BAND SWITCH
FM → AM
IC1 LA3301 MPX
FM DISCRI TRANS
Q3 2SC710 FM OSC
D1 2SC403C AFC
Q8 2SC710 AM OSC
Q9 2SC710 AM MIX
AM ANT
T5 AM OSC
T8 CFT
T7 MPX
T6 MPX
FM STEREO SEPARATION
D6 SEL103R STEREO
HRP PP181-3602
HE EBF5-36
P302
P303
X2
X1
H7
H6
MIC
ELECTRET CONDENSER MICROPHONE C-1004Q
J301 G LINE OUT (L)
J301 E LINE IN (L)
J301 B EXT MIC (L)
J301 A MIX MIC
EXT MIC (R)
P301
REC BIAS ADJ
CP301 BIAS OSC UNIT
Y (TAPE RECORDER)
Q301, 302 2SC631A EQ AMP
Q303 2SC634A BUFFER-I
Q312 2SC634A BUFFER-II
Q305, 306 2SC634A FLAT AMP
Q307, 308 2SC634A METER AMP
D301, 302, 303, 304 1S1555 METER PROTECT, METER RECT
Q311 2SC634A AGC BUFFER
Q304 2SC634A MUTING
D408, 409 1S1555 MUTING
(PROTECT) R422 330
PLAYBACK LEVEL
D306, 307 1S1555 AGC RECT
D305 1S1555 AGC MUTE
AGC
Q309, 409 2SC1363 AGC
Q310, 410 2SC1364 AGC AMP
D405 1S1555
D308, 309 1S1555
REC · PB
Z (MOTOR DRIVE)
Q901 2SC1364 DRIVE AMP
Q902 2SB475 CONST CURRENT
Q903 2SC1761 MOTOR DRIVE
Q904 2SC1364 MOTOR DRIVE
TAPE SPEED
(MIXING) H1
P753
P755
P752
TAPE SELECT
TYPE I (NORM)
TYPE II (CrO2)
MIC FADER
S751-1-3 MIXING
S752-1-4 METER
S753-1-4 TAPE SELECT
S754-1-4 MODE
S752 METER LEVEL
BATT TUNE
OFF
H2
P702
P701
D701 RD5.6E-B 5.6V REG
D702 1S1555 DC STOPPER
LINE IN
RADIO
OFF
TV

4

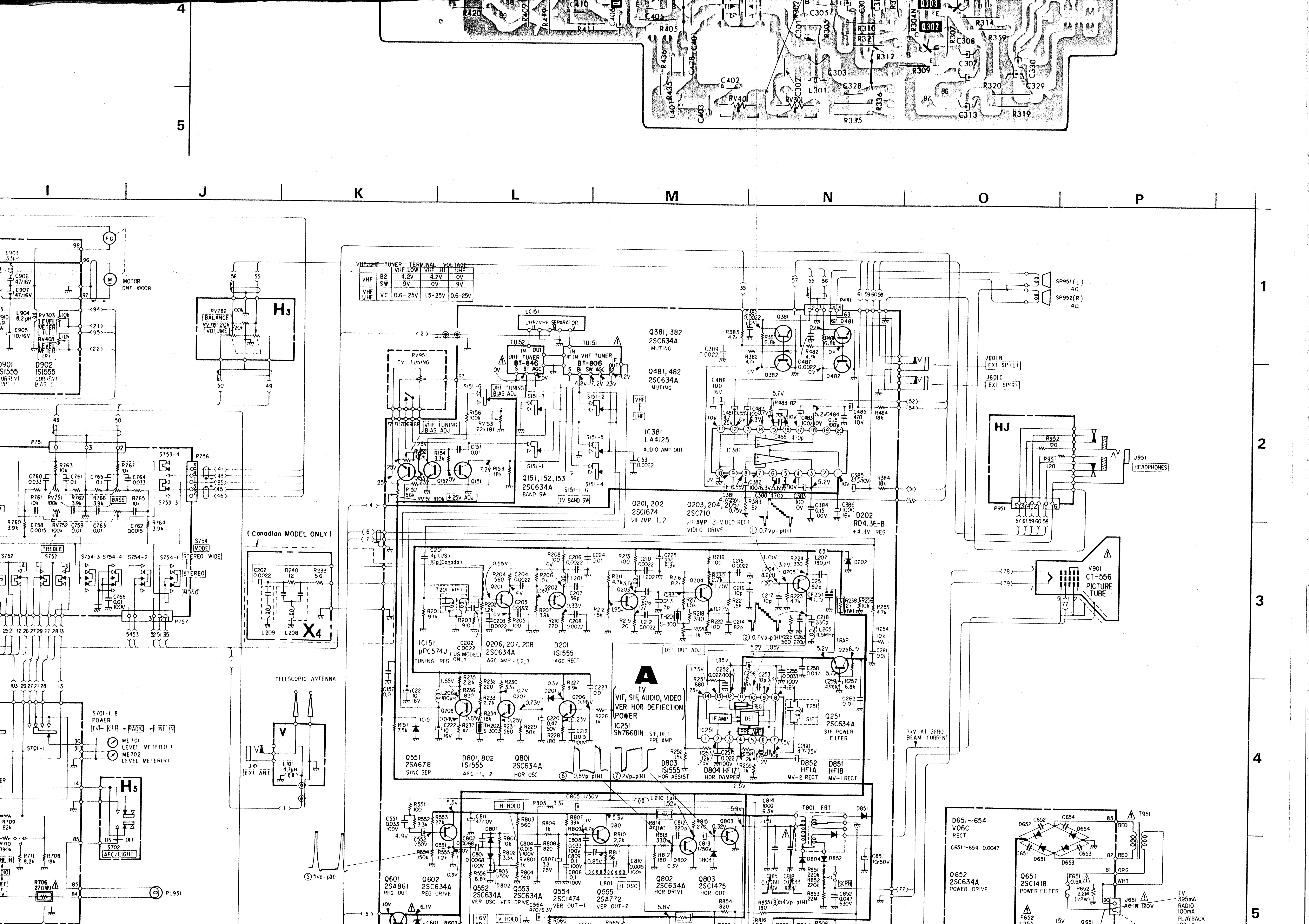
5


R420
R409
R419
C410
R411
C405
R405
R436
C428
C401
C402
R435
L401
C403
RV401
RV301
C302
C301
R302


F
G
H
I
J
K
L
M
IC1 LA3301
MPX
FM → AM
FM STEREO SEPARATION
D6
SEL103R
STEREO
Z (MOTOR DRIVE)
MOTOR
DNF-10008
TAPE SPEED
Q901
2SC1364
DRIVE AMP
Q902
2SB475
CONST CURRENT
Q903
2SC1761
MOTOR DRIVE
Q904
2SC1364
MOTOR DRIVE
D901
IS1555
CURRENT BIAS
D902
IS1555
CURRENT BIAS 2
H3
RV782 BALANCE
RV781 20k VOLUME
H1 (MIXING)
TAPE SELECT
TYPE I (NORM)
TYPE II (CrO2)
MIC FADER
S751-1-3 MIXING
S752-1-4 METER
S753-1-4 TAPE SELECT
S754-1-4 MODE
METER LEVEL
BATT TUNE
TREBLE
BASS
OFF
S754 MODE
STEREO WIDE
STEREO
MONO
(Canadian MODEL ONLY)
X4
TELESCOPIC ANTENNA
V
J101 EXT ANT
⑤ 5Vp-p(H)
H2
S701 1-8 POWER
TV - OFF - RADIO - LINE IN
ME701 LEVEL METER(L)
ME702 LEVEL METER(R)
D701 RD5.6E-B 5.6V REG
D702 IS1555 DC STOPPER
H5
S702 AFC/LIGHT
PL951
D301, 302, 303, 304
IS1555
METER PROTECT, METER RECT
Q311
2SC634A
AGC BUFFER
D306, 307
IS1555
AGC RECT
D305 IS1555
AGC MUTE
Q310, 410
2SC1364
AGC AMP
D308, 309
IS1555
VHF/UHF TUNER TERMINAL VOLTAGE

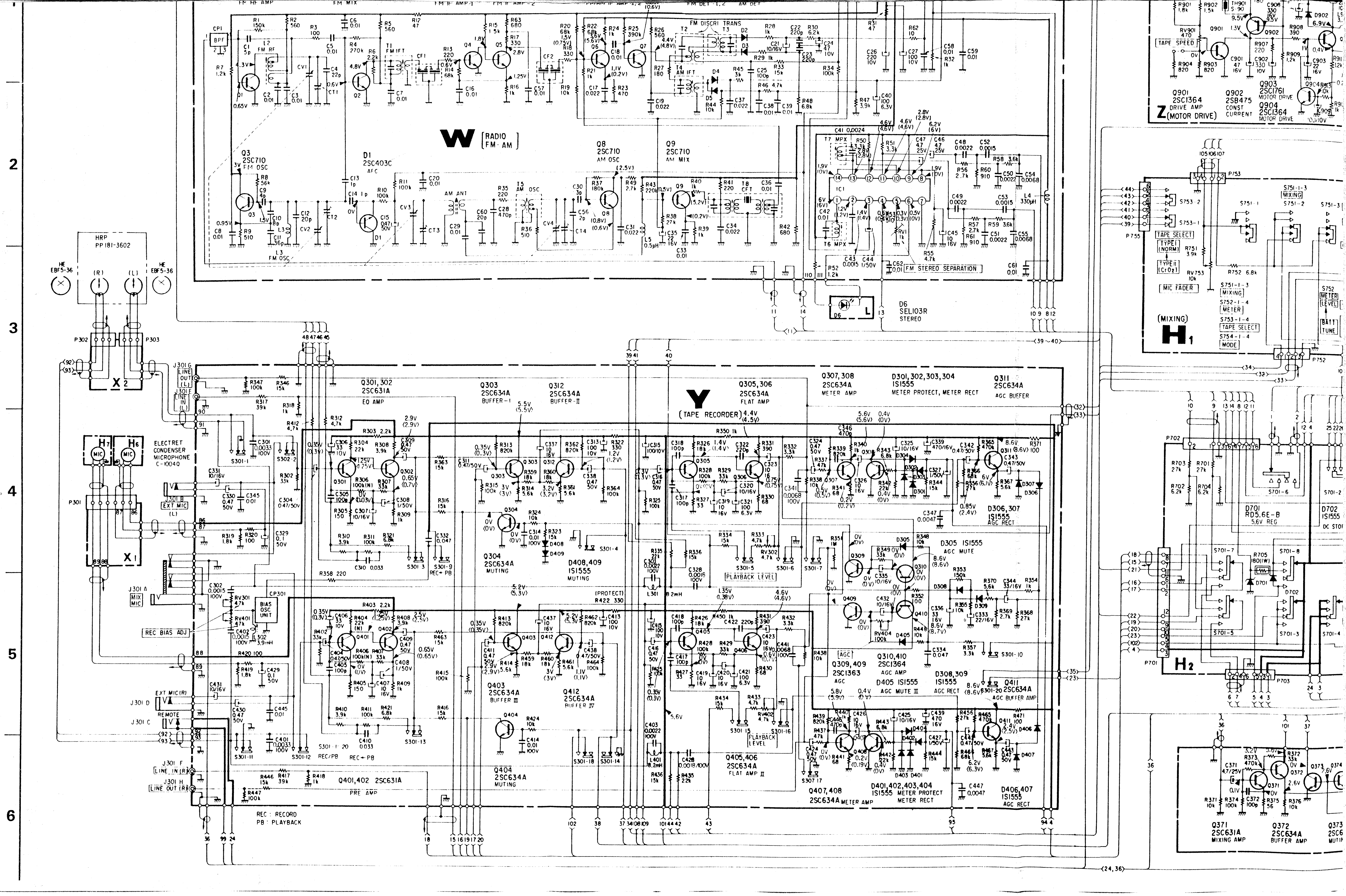
		VHF LOW	VHF HI	UHF
VHF	B2	4.2V	4.2V	0V
	SW	9V	0V	9V
VHF UHF	VC	0.6-25V	1.5-25V	0.6-25V

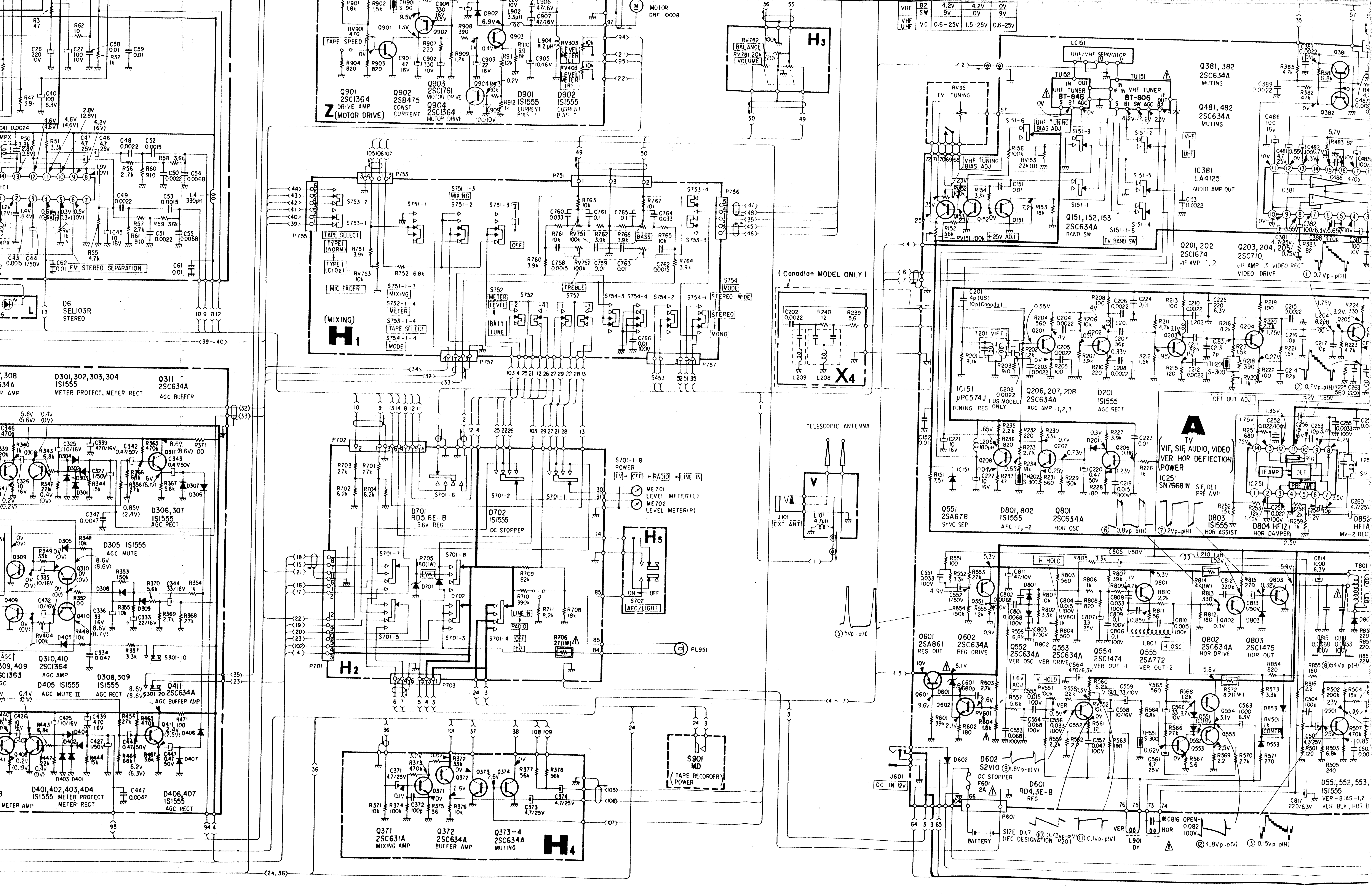
LC151
UHF/VHF SEPARATOR
TU152 UHF TUNER BT-846
TU151 VHF TUNER BT-806
RV951 TV TUNING
UHF TUNING BIAS ADJ
VHF TUNING BIAS ADJ
+25V ADJ
Q151, 152, 153
2SC634A
BAND SW
S151-1-6
TV BAND SW
Q381, 382
2SC634A
MUTING
Q481, 482
2SC634A
MUTING
IC381
LA4125
AUDIO AMP OUT
Q201, 202
2SC1674
VIF AMP 1, 2
Q203, 204, 205
2SC710
VIF AMP 3 VIDEO RECT
VIDEO DRIVE
① 0.7Vp-p(H)
② 0.7Vp-p(H)
IC151
μPC574J
TUNING REG
C202 0.0022 (US MODEL) ONLY
C201 4p (US) 10p (Canada)
T201 VIF T
Q206, 207, 208
2SC634A
AGC AMP -1, 2, 3
D201
IS1555
AGC RECT
DET OUT ADJ
A
TV
VIF, SIF, AUDIO, VIDEO
VER HOR DEFLECTION
POWER
IC251
SN76681N
SIF, DET
PRE AMP
IF AMP
DET
REG
PRE AMP
SIFT
Q551
2SA678
SYNC SEP
D801, 802
IS1555
AFC-1, -2
Q801
2SC634A
HOR OSC
⑥ 0.8Vp-p(H)
⑦ 2Vp-p(H)
D803
IS1555
HOR ASSIST
D804 HF1Z
HOR DAMPER
D852
HF1A
MV-2 RECT
H HOLD
H OSC
V HOLD
Q601
2SA861
REG OUT
Q602
2SC634A
REG DRIVE
Q552
2SC634A
VER OSC
Q553
2SC634A
VER DRIVE
Q554
2SC1474
VER OUT-1
Q555
2SA772
VER OUT-2
Q802
2SC634A
HOR DRIVE
Q803
2SC1475
HOR OUT
⑧ 54Vp-p(H)
T801


4
5
I
J
K
L
M
N
O
P
1
2
3
4
5
MOTOR DNF-1000B
H3
RV782 BALANCE
RV781 20k VOLUME
D901 IS1555 CURRENT BIAS
D902 IS1555 CURRENT BIAS
RV303 LEVEL METER (L)
RV403 LEVEL METER (R)
P751
TREBLE
BASS
S753-4
S753-3
P756
S754 MODE STEREO WIDE STEREO MONO
P757
(Canadian MODEL ONLY)
X4
L209
L208
TELESCOPIC ANTENNA
V
J101 EXT ANT
L101 4.7μH
S701-1~8 POWER TV OFF RADIO LINE IN
ME701 LEVEL METER(L)
ME702 LEVEL METER(R)
H5
S702 AFC/LIGHT
R706 27(1W)
PL951
RV951 TV TUNING
LC151 UHF/VHF SEPARATOR
TU152 UHF TUNER BT-846
TU151 VHF TUNER BT-806
UHF TUNING BIAS ADJ
VHF TUNING BIAS ADJ
+25V ADJ
Q151, 152, 153 2SC634A BAND SW
S151-1~6 TV BAND SW
Q381, 382 2SC634A MUTING
Q481, 482 2SC634A MUTING
IC381 LA4125 AUDIO AMP OUT
VHF
UHF
SP951(L) 4Ω
SP952(R) 4Ω
P481
J601B EXT SP(L)
J601C EXT SP(R)
HJ
R952 120
R951 120
J951 HEADPHONES
P951
Q201, 202 2SC1674 VIF AMP 1, 2
Q203, 204, 205 2SC710 VIF AMP 3 VIDEO RECT VIDEO DRIVE
D202 RD4.3E-B +4.3V REG
① 0.7Vp-p(H)
② 0.7Vp-p(H)
V901 CT-556 PICTURE TUBE
T201 VIFT
IC151 μPC574J TUNING REG
C202 0.0022 (US MODEL ONLY)
Q206, 207, 208 2SC634A AGC AMP-1,2,3
D201 IS1555 AGC RECT
DET OUT ADJ
A
TV VIF, SIF, AUDIO, VIDEO VER HOR DEFLECTION POWER
IC251 SN76681N SIF, DET PRE AMP
IF AMP
DET
REG
PRE AMP
T251 SIFT
Q251 2SC634A SIF POWER FILTER
TRAP
Q551 2SA678 SYNC SEP
D801, 802 IS1555 AFC-1, -2
Q801 2SC634A HOR OSC
⑥ 0.8Vp-p(H)
⑦ 2Vp-p(H)
D803 IS1555 HOR ASSIST
D804 HF1Z HOR DAMPER
D852 HF1A MV-2 RECT
D851 HF1B MV-1 RECT
7kV AT ZERO BEAM CURRENT
H HOLD
⑤ 5Vp-p(H)
H OSC
T801 FBT
SCRN
⑧ 54Vp-p(H)
Q601 2SA861 REG OUT
Q602 2SC634A REG DRIVE
Q552 2SC634A VER OSC
Q553 2SC634A VER DRIVE
Q554 2SC1474 VER OUT-1
Q555 2SA772 VER OUT-2
Q802 2SC634A HOR DRIVE
Q803 2SC1475 HOR OUT
V HOLD
D651~654 V06C RECT
C651~654 0.0047
Q652 2SC634A POWER DRIVE
Q651 2SC1418 POWER FILTER
F651 0.5A
R652 2.2M (1/2W)
T951
RED
ORG
WHT
J651 AC IN 120V
TV 395mA RADIO 100mA PLAYBACK

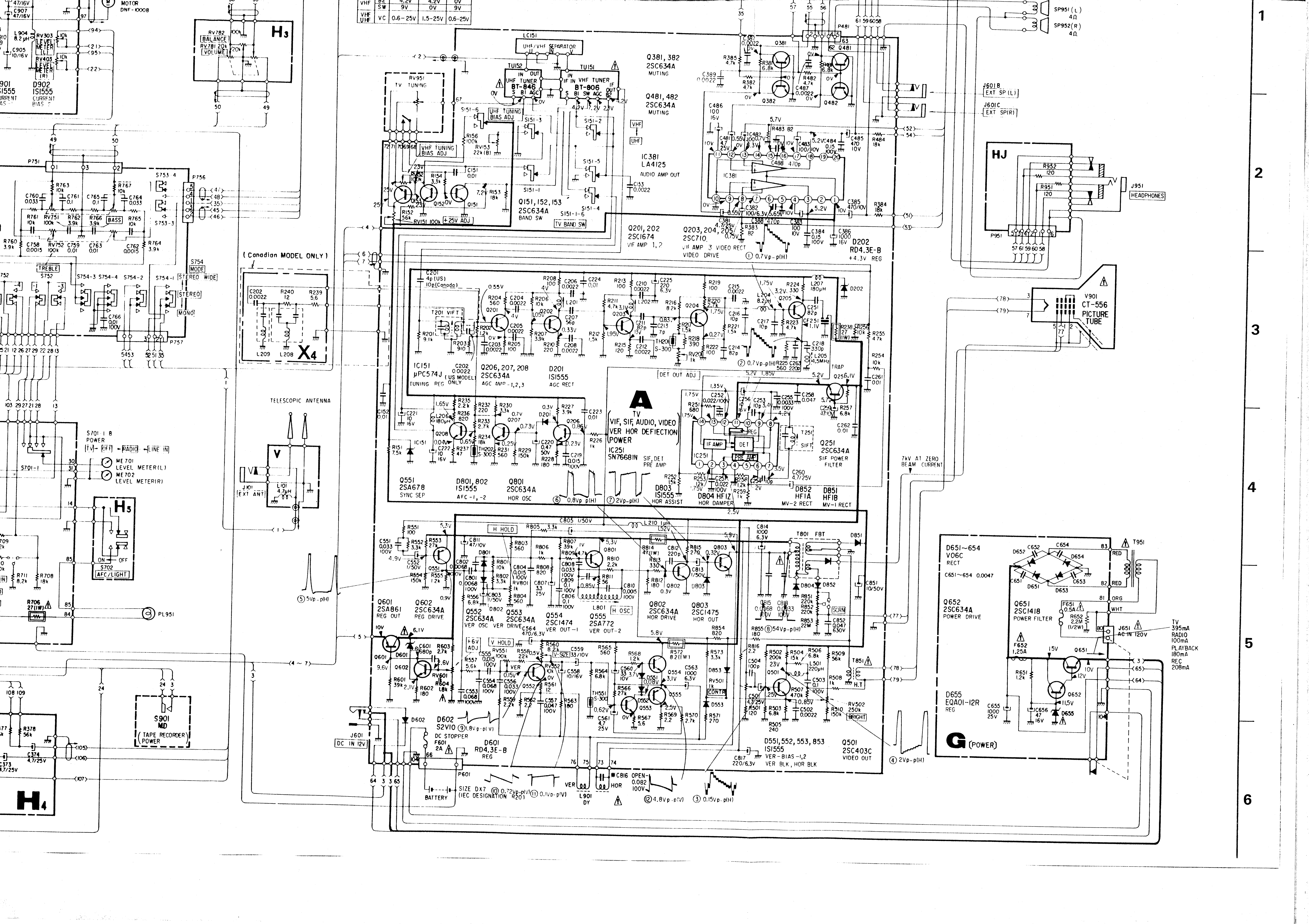
VHF.UHF TUNER TERMINAL VOLTAGE

		VHF LOW	VHF HI	UHF
VHF	B2	4.2V	4.2V	0V
	SW	9V	0V	9V
VHF UHF	VC	0.6-25V	1.5-25V	0.6-25V


W [RADIO FM·AM]
Q3 2SC710 FM OSC
D1 2SC403C AFC
Q8 2SC710 AM OSC
Q9 2SC710 AM MIX
FM DISCRI TRANS
T4 AM IFT
T5 AM OSC
T8 CFT
AM ANT
L3 FM OSC
IC1
T7 MPX
T6 MPX
FM STEREO SEPARATION
D6 SEL103R STEREO
HRP PP181-3602
HE EBF5-36
P302
P303
X2
X1
H7
H6
MIC
ELECTRET CONDENSER MICROPHONE C-1004Q
P301
EXT MIC (L)
J301 A MIX MIC
REC BIAS ADJ
CP301 BIAS OSC UNIT
EXT MIC(R)
REMOTE
J301 F LINE IN (R)
J301 H LINE OUT (R)
J301 G LINE OUT (L)
J301 E LINE IN (L)
Y (TAPE RECORDER)
Q301, 302 2SC631A EQ AMP
Q303 2SC634A BUFFER-I
Q312 2SC634A BUFFER-II
Q305, 306 2SC634A FLAT AMP
Q307, 308 2SC634A METER AMP
D301, 302, 303, 304 1S1555 METER PROTECT, METER RECT
Q311 2SC634A AGC BUFFER
Q304 2SC634A MUTING
D408, 409 1S1555 MUTING
D306, 307 1S1555 AGC RECT
D305 1S1555 AGC MUTE
PLAYBACK LEVEL
Q403 2SC634A BUFFER III
Q412 2SC634A BUFFER IV
Q404 2SC634A MUTING
Q401, 402 2SC631A PRE AMP
Q405, 406 2SC634A FLAT AMP II
Q309, 409 2SC1363 AGC
Q310, 410 2SC1364 AGC AMP
D405 1S1555 AGC MUTE II
D308, 309 1S1555 AGC RECT
Q411 2SC634A AGC BUFFER AMP
Q407, 408 2SC634A METER AMP
D401, 402, 403, 404 1S1555 METER PROTECT METER RECT
D406, 407 1S1555 AGC RECT
REC : RECORD
PB : PLAYBACK
REC/PB
REC←PB
Z (MOTOR DRIVE)
TAPE SPEED
Q901 2SC1364 DRIVE AMP
Q902 2SB475 CONST CURRENT
Q903 2SC1761 MOTOR DRIVE
Q904 2SC1364 MOTOR DRIVE
H1 (MIXING)
P753
P755
P752
TAPE SELECT
TYPE I (NORM)
TYPE II (CrO2)
MIC FADER
S751-1-3 MIXING
S752-1-4 METER
S753-1-4 TAPE SELECT
S754-1-4 MODE
METER LEVEL
BATT TUNE
P702
P701
P703
H2
D701 RD5.6E-B 5.6V REG
D702 DC STOP
Q371 2SC631A MIXING AMP
Q372 2SC634A BUFFER AMP
Q373 2SC6 MUTIN
2
3
4
5
6


Z (MOTOR DRIVE)
Q901 2SC1364 DRIVE AMP
Q902 2SB475 CONST CURRENT
Q903 2SC1761 MOTOR DRIVE
Q904 2SC1364 MOTOR DRIVE
D901 1S1555 CURRENT BIAS
D902 1S1555 CURRENT BIAS
TAPE SPEED
MOTOR DNF-1000B
H3
RV782 BALANCE
RV781 20k VOLUME
H1 (MIXING)
TAPE SELECT
TYPE I (NORM)
TYPE II (CrO2)
MIC FADER
S751-1-3 MIXING
S752-1-4 METER
S753-1-4 TAPE SELECT
S754-1-4 MODE
TREBLE
BASS
METER LEVEL
BATT TUNE
MODE STEREO WIDE
STEREO
MONO
OFF
(Canadian MODEL ONLY)
X4
TELESCOPIC ANTENNA
V
J101 EXT ANT
L101 4.7μH
H2
S701-1 8 POWER
TV OFF RADIO LINE IN
ME701 LEVEL METER(L)
ME702 LEVEL METER(R)
D701 RD5.6E-B 5.6V REG
D702 1S1555 DC STOPPER
LINE IN
RADIO
OFF
TV
R706 27(1W)
PL951
H5
S702 AFC/LIGHT
ON OFF
H4
Q371 2SC631A MIXING AMP
Q372 2SC634A BUFFER AMP
Q373-4 2SC634A MUTING
S901 MD (TAPE RECORDER POWER)
FM STEREO SEPARATION
D6 SEL103R STEREO
L
D301,302,303,304 1S1555 METER PROTECT, METER RECT
Q311 2SC634A AGC BUFFER
D305 1S1555 AGC MUTE
D306,307 1S1555 AGC RECT
Q310,410 2SC1364 AGC AMP
D405 1S1555 AGC MUTE II
D308,309 1S1555 AGC RECT
Q411 2SC634A AGC BUFFER AMP
D401,402,403,404 1S1555 METER PROTECT METER RECT
D406,407 1S1555 AGC RECT
METER AMP
VHF UHF
TV TUNING
RV951
LC151 UHF/VHF SEPARATOR
TU152 UHF TUNER BT-846
TU151 VHF TUNER BT-806
VHF TUNING BIAS ADJ
UHF TUNING BIAS ADJ
RV153 22k(B)
RV151 100k +25V ADJ
Q151,152,153 2SC634A BAND SW
TV BAND SW
Q381,382 2SC634A MUTING
Q481,482 2SC634A MUTING
IC381 LA4125 AUDIO AMP OUT
Q201,202 2SC1674 VIF AMP 1,2
Q203,204,205 2SC710 VIF AMP 3 VIDEO RECT VIDEO DRIVE
① 0.7Vp-p(H)
② 0.7Vp-p(H)
T201 VIF T
IC151 μPC574J TUNING REG
C202 0.0022 (US MODEL ONLY)
Q206,207,208 2SC634A AGC AMP-1,2,3
D201 1S1555 AGC RECT
DET OUT ADJ
A
TV
VIF, SIF, AUDIO, VIDEO
VER HOR DEFLECTION
POWER
IC251 SN76681N SIF, DET PRE AMP
IF AMP
DET
PRE AMP
REG
Q551 2SA678 SYNC SEP
D801,802 1S1555 AFC-1,-2
Q801 2SC634A HOR OSC
⑥ 0.8Vp-p(H)
⑦ 2Vp-p(H)
D803 1S1555 HOR ASSIST
D804 HF1Z HOR DAMPER
⑤ 5Vp-p(H)
H HOLD
H OSC
V HOLD
V-SIZE
Q601 2SA861 REG OUT
Q602 2SC634A REG DRIVE
Q552 2SC634A VER OSC
Q553 2SC634A VER DRIVE
Q554 2SC1474 VER OUT-1
Q555 2SA772 VER OUT-2
Q802 2SC634A HOR DRIVE
Q803 2SC1475 HOR OUT
⑧ 54Vp-p(H)
CONTR
J601 DC IN 12V
D602 S2V10 ⑨ 1.8Vp-p(V) DC STOPPER
F601 2A
D601 RD4.3E-B
BATTERY
SIZE DX7 (IEC DESIGNATION R20)
⑩ 0.72Vp-p(V)
⑪ 0.1Vp-p(V)
VER
HOR
L901 DY
C816 OPEN-0.082 100V
⑫ 4.8Vp-p(V)
③ 0.15Vp-p(H)
D551,552,553 1S1555 VER-BIAS-1,2 VER BLK, HOR B
T801

VHF	B2	4.2V	4.2V	0V
VHF	SW	9V	0V	9V
VHF UHF	VC	0.6-25V	1.5-25V	0.6-25V


MOTOR
DNF-1000B
H3
RV782 BALANCE
RV781 20k VOLUME
LEVEL METER (L)
LEVEL METER (R)
D901 1S1555 CURRENT BIAS
D902 1S1555 CURRENT BIAS
P751
RV751 100k
RV752 100k
BASS
TREBLE
S752
S753-3
S753-4
S754 MODE
STEREO WIDE
STEREO
MONO
P756
P757
(Canadian MODEL ONLY)
X4
L209
L208
TELESCOPIC ANTENNA
V
J101 EXT ANT
L101 4.7μH
S701 1-8 POWER
TV - OFF - RADIO - LINE IN
ME701 LEVEL METER(L)
ME702 LEVEL METER(R)
H5
S702 AFC/LIGHT
ON OFF
R706 27(1W)
PL951
S901 MD (TAPE RECORDER POWER)
H4
J601 DC IN 12V
F601 2A
D602 DC STOPPER
P601
BATTERY
SIZE DX7 (IEC DESIGNATION R20)
LC151 UHF/VHF SEPARATOR
TU152 UHF TUNER BT-846
TU151 VHF TUNER BT-806
RV951 TV TUNING
S151-6 UHF TUNING BIAS ADJ
VHF TUNING BIAS ADJ
RV153 22k (B)
RV151 100k +25V ADJ
Q151, 152, 153 2SC634A BAND SW
S151-1-6 TV BAND SW
VHF
UHF
IC381 LA4125 AUDIO AMP OUT
Q381, 382 2SC634A MUTING
Q481, 482 2SC634A MUTING
P481
SP951(L) 4Ω
SP952(R) 4Ω
J601B EXT SP (L)
J601C EXT SP(R)
HJ
J951 HEADPHONES
P951
Q201, 202 2SC1674 VIF AMP 1, 2
Q203, 204, 205 2SC710 VIF AMP 3 VIDEO RECT VIDEO DRIVE
① 0.7Vp-p(H)
D202 RD4.3E-B +4.3V REG
T201 VIF T
IC151 μPC574J TUNING REG
Q206, 207, 208 2SC634A AGC AMP -1,2,3
D201 1S1555 AGC RECT
② 0.7Vp-p(H)
DET OUT ADJ
TRAP
A
TV VIF, SIF, AUDIO, VIDEO VER HOR DEFLECTION POWER
IC251 SN76681N SIF, DET PRE AMP
IF AMP
DET
REG
PRE AMP
T251 SIFT
Q251 2SC634A SIF POWER FILTER
V901 CT-556 PICTURE TUBE
7kV AT ZERO BEAM CURRENT
Q551 2SA678 SYNC SEP
D801, 802 1S1555 AFC-1, -2
Q801 2SC634A HOR OSC
⑥ 0.8Vp-p(H)
⑦ 2Vp-p(H)
D803 1S1555 HOR ASSIST
D804 HF1Z HOR DAMPER
D852 HF1A MV-2 RECT
D851 HF1B MV-1 RECT
H HOLD
L801 H OSC
T801 FBT
SCRN
⑤ 5Vp-p(H)
Q601 2SA861 REG OUT
Q602 2SC634A REG DRIVE
Q552 2SC634A VER OSC VER DRIVE
Q553 2SC634A
Q554 2SC1474 VER OUT-1
Q555 2SA772 VER OUT-2
Q802 2SC634A HOR DRIVE
Q803 2SC1475 HOR OUT
⑧ 54Vp-p(H)
V HOLD
V-SIZE
+6V ADJ
CONTR
BRIGHT
T851 H.T
Q501 2SC403C VIDEO OUT
D551, 552, 553, 853 1S1555 VER-BIAS-1,2 VER BLK, HOR BLK
D602 S2V10 ⑨ 1.8Vp-p(V)
D601 RD4.3E-B REG
⑩ 0.72Vp-p(V)
⑪ 0.1Vp-p(V)
L901 DY
VER
HOR
C816 OPEN-0.082 100V
⑫ 4.8Vp-p(V)
③ 0.15Vp-p(H)
④ 2Vp-p(H)
D651~654 V06C RECT
C651~654 0.0047
Q652 2SC634A POWER DRIVE
Q651 2SC1418 POWER FILTER
F651 0.5A
R652 2.2M (1/2W)
F652 1.25A
T951
RED
ORG
WHT
J651 AC IN 120V
TV 395mA
RADIO 100mA
PLAYBACK 180mA
REC 208mA
D655 EQA01-12R REG
G (POWER)
1
2
3
4
5
6